# Final Soil Vapor Intrusion Survey Data Summary Report for Apron 2, Building 817/WSA, Building 775, and AOC 9

## Former Griffiss Air Force Base Rome, New York

## October 2007

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# List of Abbreviations and Acronyms

| | |
|---|---|
| AFIOH | Air Force Institute for Operational Health |
| AFRPA | Air Force Real Property Agency |
| AOC | area of concern |
| ASP | Analytical Services Protocol |
| bgs | below ground surface |
| CB | chlorobenzene |
| COC | Contaminant of Concern |
| DCB | dichlorobenzene |
| DCE | dichloroethylene |
| DER | Division of Environmental Remediation |
| DUSR | Data Usability Summary Report |
| EEEPC | Ecology and Environment Engineering, P.C. |
| ELAP | Environmental Laboratory Accreditation Program |
| ERDC | (United States Army) Engineer Research and Development Center |
| FPM | FPM Group Ltd. |
| Griffiss AFB | former Griffiss Air Force Base |
| GS/MS | gas chromatography/mass spectrometry |
| hp | horsepower |
| IDW | investigation-derived waste |
| IRIS | Integrated Risk Information System |
| LIMS | Laboratory Information Management System |

## List of Abbreviations and Acronyms (cont.)

| | |
|---|---|
| $\mu g/m^3$ | micrograms per cubic meter |
| MS/MSD | matrix spike/matrix spike duplicate |
| MTBE | methyl tert-butyl ether |
| NELAP | National Environmental Laboratory Accreditation Program |
| NYSDEC | New York State Department of Environmental Conservation |
| NYSDOH | New York State Department of Health |
| OBGW | on-base groundwater |
| PCE | perchloroethene (tetrachloroethene) |
| PID | photoionization detector |
| ppb | parts per billion |
| PPE | personal protective equipment |
| ppm | parts per million |
| QA | quality assurance |
| QAPP | Quality Assurance Project Plan |
| QC | quality control |
| SOP | standard operating procedure |
| STL | Severn-Trent Laboratories |
| SVI | soil vapor intrusion |
| TAGM | Technical and Administrative Guidance Memorandum |
| TCA | trichloroethane |
| TCE | trichloroethylene |
| TCL | target compound list |
| TCLP | toxicity characteristic leaching procedure |
| USACE | United States Army Corps of Engineers |
| USEPA | United States Environmental Protection Agency |
| VC | vinyl chloride |

## List of Abbreviations and Acronyms (cont.)

| | |
|---|---|
| VOC | volatile organic compound |
| WSA | Weapons Storage Area |

# 1 Introduction

A soil vapor intrusion (SVI) survey was performed at the following on-base groundwater (OBGW) areas of concern (AOCs) at the former Griffiss Air Force Base (Griffiss AFB) in Rome, New York: Apron 2 chlorinated plume, Building 817/Weapons Storage Area (WSA), AOC 9, and Building 775/Pumphouse 3 (see Figure 1-1). The future use of these sites will be restricted to industrial/ commercial use. This study was recommended, as described in the *Final Work Plan for Soil Vapor Intrusion Survey at Apron 2, Building 817/WSA, Building 775, and AOC 9, Griffiss Air Force Base, Rome, New York* (EEEPC September 2006), because of existing groundwater contamination at these sites.

A SVI survey at the Landfill 6 OBGW AOC was not included in this study because future development at this location is not expected to occur: The northern portion of the site contains a capped landfill and the southern portion contains wetlands that are designated to remain as open space.

## 1.1 Purpose of Investigation

SVI surveys were conducted at these four sites to determine if soil vapor is migrating into existing buildings or is present in areas that may be used as building sites in the future. The surveys included sub-slab vapor sampling in existing buildings where soil vapor intrusion may be an issue due to the presence of contaminated groundwater beneath the building and soil vapor sampling in areas with contaminated groundwater that may be used as future building sites. In addition, indoor/outdoor air sampling was performed during this survey because initial soil vapors detected during this study exceeded screening levels (see Section 2.8). All samples were collected in accordance with the *Final Work Plan for Soil Vapor Intrusion Survey at Apron 2, Building 817/WSA, Building 775, and AOC 9, Griffiss Air Force Base, Rome, New York* (EEEPC September 2006).

## 1.2 Site Descriptions and Groundwater Contamination Summary

### 1.2.1 Apron 2 Chlorinated Plume

The chlorinated volatile organic compound (VOC) contamination associated with the Apron 2 chlorinated plume site is present in two plumes, referred to as the southern and northern plumes (see Figure 3-1 in Section 3). The southern plume is approximately 2,800 feet long and 500 feet wide and appears to originate in the

area of the nosedock wash water system near Building 786. The northern plume is smaller (480 feet long) and appears to originate along the sewer system north of Building 782. Chlorinated solvent probably was used in all nosedock facilities, and multiple small sources could exist along floor drains, sewer lines, and oil water separators.

There are three primary contaminants of concern (COCs) in the plumes that exceed New York State Department of Environmental Conservation (NYSDEC) Class GA Groundwater Standards: trichloroethylene (TCE) and its breakdown products cis-1, 2 dichloroethylene (DCE) and vinyl chloride (VC). The southern plume is commingled with several petroleum fuel plumes originating from the Apron 2 fueling system. At locations where TCE and fuel contaminants are commingled, significant reductive dechlorination is occurring and TCE is almost totally degraded to cis-1, 2 DCE and VC. In April 2005, the maximum TCE concentration was 24 parts per billion (ppb), detected in the northern plume at well 782VMW97. The level of TCE has been steadily decreasing in both plumes and it appears that no significant source of TCE remains at the site. In April 2005, the maximum cis-1,2 DCE concentration was 54 ppb in well 782MW10, located in the southern plume in an area with commingled fuel contamination. The maximum VC concentration was 130 ppb at well 782MW-96, which is also located in the center of fuel-contaminated groundwater. The commingled fuel plume is providing significant reductions in TCE and cis-1, 2 DCE through well-documented reductive dechlorination processes. At many locations, methyl tert-butyl ether (MTBE) and benzene are also present at levels exceeding NYSDEC Class GA Groundwater Standards (FPM Group February 2005).

The contaminated aquifer is located at 9 to 25 feet below ground surface (bgs), with the shallow depth occurring in the vicinity of Six Mile Creek. The aquifer is composed of several well-defined layers, including a silty-sand layer in the upper 5 feet, a 5- to 15 foot-thick coarse sand and gravel layer in the middle of the aquifer, and a 15- to 20-foot thick layer of till composed of fine sand, silt, and gravel resting on the shale bedrock. The total aquifer thickness ranges from 45 feet in the source areas to less than 20 feet in the downgradient areas near Six Mile Creek. Although the site has a relatively flat gradient, the high hydraulic conductivity of gravel layers has produced an estimated average groundwater velocity of 106 feet per year. This velocity seems reasonable, given the 2,800 feet the VOC plume has migrated (FPM Group February 2005).

Insert Figure

**1-1 OBGW AOC Locations, Former Griffiss Air Force Base, Rome, New York**

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Figure 1-1 page 2 of 2

Five buildings (Building 782, 783, 784, 785, and 786) at Apron 2 are located above the areas showing significantly elevated levels of VOCs in the groundwater. More than two-thirds of the ground surface in the vicinity of Apron 2 is covered by structures or impermeable pavements (FPM Group April 2004), which could limit the likelihood of soil vapor being released to the atmosphere. A bioventing system has been installed and has been operating at Apron 2 since 2003. Bioventing, as employed at Apron 2, is the forced injection of ambient air into contaminated soil to provide an oxygen-rich environment in order to stimulate indigenous soil bacteria and enhance the in situ degradation of hydrocarbons. Two blower units are employed to inject air into the soil beneath Apron 2. The blowers installed at Apron 2 consist of a 3-horsepower (hp) blower located adjacent to Building 783 on the western side of the apron, and a 5-hp blower located on the eastern side of the apron (Parsons April 2004).

### 1.2.2 Building 817/Weapons Storage Area

The Building 817/WSA site is located on the north side of the main runway between Building 817 and the culverted section of Six Mile Creek south of the former WSA. Building 817 was used at one time for electronics parts maintenance, and TCE and perchloroethene (PCE) were solvents used in small quantities at this location. The COCs exceeding NYSDEC Class GA Groundwater Standards are TCE and PCE. In September 2004, the maximum TCE concentration was 90 ppb and the maximum PCE concentration was 72 ppb. Site groundwater flows south under Perimeter Road and toward the culverted section of Six Mile Creek. The contaminated aquifer is composed of relatively uniform fine sands that begin at 5 feet bgs and extend to shale bedrock at approximately 20 to 25 feet bgs. Contamination is not found in the bedrock. Groundwater velocities at this site have been estimated as high as 110 feet per year. In September 2004, a TCE concentration of 90 ppb was detected in downgradient well WSAVMW17. Although there is no indication that the plume has migrated to Six Mile Creek, the level of contamination at WSAVMW17 does indicate the potential for additional migration. Figure 3-2 (see Section 3) illustrates the September 2004 total volatile organic levels in groundwater. The TCE/PCE plume does not contain other petroleum-based organics to stimulate reductive dechlorination. There is no significant cis-1, 2-DCE in the plume, indicating that reductive dechlorination is not occurring.

One building (Building 817) is present at the Building 817/WSA site. The potential also exists for future development of the areas above the contaminant plume, immediately north and south of Perimeter Road.

### 1.2.3 AOC 9

AOC 9 is a grass-covered area located on the north side of the main runway between the former WSA and Six Mile Creek. From 1943 to 1957, this area was used as a base landfill. Much of the landfill material was removed from the area in the 1950s as the WSA was constructed. The primary COC exceeding NYSDEC Class GA Groundwater Standards at this site is chlorobenzene (CB),

with 1,2-dichlorobenzene (DCB), 1,4-dichlorobenzene, PCE, TCE, DCE, and VC also exceeding Class GA Groundwater Standards by at least one order of magnitude. The presence of cis-1, 2-DCE and VC at increasing concentrations in the downgradient portion of the plume indicates that some reductive dechlorination of PCE and/or TCE is occurring. In September 2004, the maximum CB concentration of 1,320 ppb was recorded in Geoprobe® well GP44S2, which is located approximately 100 feet north of Perimeter Road. The source of VOC contamination remains unknown. Contaminated groundwater at the site flows southwest from the corner of the WSA and toward an open section of Six Mile Creek. Samples from groundwater monitoring wells installed on either side of Six Mile Creek indicate that some of the CB-contaminated groundwater is discharging to the creek and also has migrated beneath the creek. Because CB is highly soluble and mobile in groundwater, this compound is the most widespread COC at the site. Figure 3-3 (see Section 3) illustrates the September 2004 CB levels in groundwater.

The contaminated aquifer north of Perimeter Road is composed of silty-fine sands and coarse sands with discontinuous gravel seams. North of Perimeter Road, the aquifer is found in an interval from 10 to 25 feet bgs. South of Perimeter Road there is less overburden and the aquifer extends from 1 to 18 feet bgs. Shale bedrock underlies the aquifer, but contamination has not been detected in the bedrock. Groundwater velocities at this site have been estimated at 3,000 to 5,100 feet per year. Although the source of CB contamination at this site has never been identified, it is likely that a source exists in the unsaturated and/or saturated zone north of Perimeter Road. This would explain why CB concentrations remain above 1,000 ppb in an aquifer that is flowing so rapidly through sands and gravels.

No buildings at AOC 9 are located above the areas with significantly elevated levels of VOCs in the groundwater. However, the potential exists for future development of the areas above the contaminant plume, immediately north of Perimeter Road. No sampling is proposed for the areas above the contaminant plume located south of Perimeter Road because of the presence of wetlands in this area and the proximity to the existing runway. Future development should not occur in this area.

### 1.2.4 Building 775/Pumphouse 3

The Building 775 plume is located downgradient and south of former maintenance facilities in Building 774 and 776 and former fuel pump house Building 775. Although the source has not been identified, solvent use in Building 775 is thought to be a primary source of TCE contamination. Solvent use was widespread in these facilities in the 1950s, 1960s, and early 1970s. Figure 3-4 (see Section 3) illustrates the extent of VOC contamination downgradient of this maintenance area. The primary COC exceeding NYSDEC Class GA Groundwater Standards is TCE, with minor detections of 1, 1, 1-trichloroethane (TCA) and PCE. Monitoring well 775VMW5, located near the

corner of Building 776, is the only well in the maintenance area that contains significant levels of TCE (99 ppb in September 2004). Most of the Building 775 plume appears to have migrated south toward Landfill 6. In September 2004, the maximum TCE concentration was 134 ppb (detected at well 775MW20, located near the leading edge of the plume near Perimeter Road); however, TCE was detected at a concentration of 673 ppb in the Hydropunch sample at 117 feet bgs in well 775 VMW20 during the 2000 Landfill 6 and Building 775 Groundwater Study (E & E August 2000). TCE was detected at 132 ppb in well 775VMW10, which is also located near the leading edge of the plume near Perimeter Road. TCE in both of these wells was detected in the bottom half of the sandy aquifer in screened intervals from 88 to 120 feet bgs. Nearby well LF6MW1 is screened in the upper 10 feet of the aquifer and does not have detectable concentrations of TCE. Based on the current TCE distribution, it appears that the TCE was likely spilled in the upgradient maintenance area and has migrated southward and downward in the aquifer.

The contaminated aquifer comprises silty sands with an average thickness extending from 60 feet bgs to 120 feet bgs, where shale bedrock is encountered. Due to a relatively flat gradient, average groundwater velocities at this site are slow and have been estimated at approximately 10 feet per year. Higher velocities may exist in discontinuous seams of coarse sand and gravel. Contamination is not found in the bedrock. Groundwater studies at the nearby Landfill 6 TCE site found relatively aerobic conditions and low dissolved organic carbon concentrations. The general absence of cis-1, 2 DCE in the Building 775 plume confirms that reductive dechlorination is not occurring.

Two buildings (Buildings 774 and 776) lie within the elevated VOC plume boundary associated with the Building 775 site. The potential also exists for future development within this area north of Perimeter Road.

# 2 Soil Vapor Intrusion (SVI) Survey

This section of the data summary report discusses the field methodologies and activities performed during this investigation.

## 2.1 Pre-sample Planning

Coordination and communication with property owners and tenants was conducted before the initiation of this sampling. Available record drawings/ as-builts were reviewed for buildings in which samples were collected. The buildings are slab-on-grade construction consisting of steel-reinforced concrete ranging from 8- to 14-inches thick. Proposed sampling locations were adjusted in the field based on site walkthroughs or chemical inventories performed before indoor air sampling. Changes to the proposed sampling included not collecting soil vapor samples in the Apron 2 chlorinated plume and Building 817/WSA plume because of the highly saturated nature of the soil and the addition of indoor/outdoor air sampling at Buildings 774 and 776, Buildings 785 and 786 of Apron 2, and Building 817/WSA, due to screening levels exceedances of several analytes detected in sub-slab samples. Deviations from the methodologies described in the *Final Work Plan for the Soil Vapor Intrusion Survey at Apron 2, Building 817/WSA, Building 775, and AOC 9, Griffiss Air Force Base, Rome, New York* (EEEPC September 2006) were documented on Field Adjustment Forms and are presented in this report (see Appendix B).

## 2.2 Pre-sampling Inspection

A pre-sampling inspection was conducted at each structure prior to sampling in order to identify conditions that may have affected or interfered with the proposed testing. The inspection included the type of structure, floor layout, physical conditions, and airflows of the building. The pre-sampling inspection was conducted the same day that the sampling devices were placed unless it was clear that recent activities might have affected evaluation of the analytical data (e.g., walls were painted recently, solvents/wood strippers were recently used, etc.). In all cases, sampling did not have to be delayed.

A product inventory was also conducted prior to indoor air sampling in order to identify potential sources of chemicals in indoor air by characterizing the occurrence and use of chemicals and products containing VOCs throughout the building, keeping in mind the goal of the investigation and site-specific COCs.

The building inspections and product inventories were recorded on New York State Department of Health (NYSDOH) Indoor Air Quality Questionnaire and Building Inventory forms (NYSDOH February 2005), with modifications to incorporate additional information. Photographs of the sample locations and products found in the structures were also collected. Completed Indoor Air Quality Questionnaire and Building Inventory forms for each structure sampled are provided in Appendix C of this report. Photographs are located in Appendix A.

## 2.3 SVI Sampling

The four sites investigated contain chlorinated organic compound plumes in the overburden. Therefore, an SVI survey was performed at each site.

Soil vapor sampling was attempted at all four sites. However, the weather conditions the week prior to and during soil vapor sampling consisted of intermittent showers and light rain, resulting in soil conditions at Building 817 and Apron 2 too saturated to collect samples. The well drained sandy soil conditions at AOC 9 and Building 775 allowed for the collection of the soil vapor samples. Although increased soil moisture could potentially reduce soil vapor migration in finer grained soils, the uniform porous sand present at both Building 775 and AOC 9, along with strict adherence to sampling protocols, allowed for the collection of representative soil vapor samples.

Sub-slab sampling was also performed in all buildings on each site (AOC 9 does not contain any buildings). Based on the evaluation of the sub-slab sampling results (presented in this report), indoor and outdoor (ambient) air sampling was also conducted at Buildings 774, 776, 785, 786 and 817. The SVI surveys were performed during October and December 2006. The survey approach was designed in consideration of with the NYSDEC's Division of Environmental Remediation (DER) *Draft DER-10 Technical Guidance for Site Investigation and Remediation* (December 2002); NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Public Comment Draft* (February 2005); NYSDEC's *Evaluating the Potential for Vapor Intrusion at Past, Current, and Future Sites* (November 2004); the United States Environmental Protection Agency's (USEPA's) OSWER *Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)*, EPA530-D-02-004 (November 2002); and the United States Air Force Institute for Operational Health (AFIOH) *Guide for the Assessment of the Vapor Intrusion Pathway* (June 2006).

Table 2-1 presents a summary of all samples collected at these four sites. Samples were collected in 6L SUMMA® canisters. Soil vapor samples were collected for a duration of 1 hour. Indoor air, outdoor air, and sub-slab air samples were collected for a duration of 8 hours. Table 2-2 provides a summary of the sample containers, amounts, and holding times.

**Table 2-1 Listing of All Samples Collected During Soil Vapor Intrusion Sampling, Former Griffiss AFB, October-December 2006**

| Sample Location | Sample ID | Date | Sample Type | Type |
|---|---|---|---|---|
| **Apron 2 Chlorinated Plume** | | | | |
| Building 782 | B782-SSV1 | 10/24/2006 | Sub-Slab Vapor | N |
| | B782-SSV1/D | 10/24/2006 | Sub-Slab Vapor | FD |
| | B782-SSV2 | 10/24/2006 | Sub-Slab Vapor | N |
| Building 783 | B783-SSV1 | 10/24/2006 | Sub-Slab Vapor | N |
| | B783-SSV2 | 10/24/2006 | Sub-Slab Vapor | N |
| Building 784 | B784-SSV1 | 10/24/2006 | Sub-Slab Vapor | N |
| | B784-SSV2 | 10/24/2006 | Sub-Slab Vapor | N |
| Building 785 | B785-SSV1 | 10/24/2006 | Sub-Slab Vapor | N |
| | B785-SSV2 | 10/24/2006 | Sub-Slab Vapor | N |
| | 785-IA1 | 12/20/2006 | Indoor Air | N |
| | 785-IA2 | 12/20/2006 | Indoor Air | N |
| Building 786 | B786-SSV1 | 10/24/2006 | Sub-Slab Vapor | N |
| | B786-SSV2 | 10/24/2006 | Sub-Slab Vapor | N |
| | B786-SSV2/D | 10/24/2006 | Sub-Slab Vapor | FD |
| | 786-IA1 | 12/20/2006 | Indoor Air | N |
| | 786-IA2 | 12/20/2006 | Indoor Air | N |
| | 786-IA2/D | 12/20/2006 | Indoor Air | FD |
| | 786-OA1 | 12/20/2006 | Outdoor Air | N |
| **Building 817/WSA** | | | | |
| | WSA-SSV1 | 10/24/2006 | Sub-Slab Vapor | N |
| | WSA-SSV1/D | 10/24/2006 | Sub-Slab Vapor | FD |
| | WSA-IA1 | 12/20/2006 | Indoor Air | N |
| | WSA-OA1 | 12/20/2006 | Outdoor Air | N |
| **AOC 9** | | | | |
| | AOC9-SV-01 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |
| | AOC9-SV-02 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |
| | AOC9-SV-03 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |
| | AOC9-SV-04 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |
| | AOC9-SV-05 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |
| | AOC9-SV-06 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |
| **Building 775/Pumphouse 3** | | | | |
| Building 774 | 774-SSV1 | 10/24/2006 | Sub-Slab Vapor | N |
| | 774-SSV2 | 10/24/2006 | Sub-Slab Vapor | N |
| | 774-IA1 | 12/20/2006 | Indoor Air | N |
| | 774-IA2 | 12/20/2006 | Indoor Air | N |
| | 774-IA2/D | 12/20/2006 | Indoor Air | FD |
| | 774-OA1 | 12/20/2006 | Outdoor Air | N |
| Building 775 | 775-SV-01 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |
| | 775-SV-02 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |
| | 775-SV-03 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |
| | 775-SV-04 | 10/18/2006 | Soil Vapor 5-8 ft BGS | N |

**Table 2-1 Listing of All Samples Collected During Soil Vapor Intrusion Sampling, Former Griffiss AFB, October-December 2006**

| Sample Location | Sample ID | Date | Sample Type | Type |
|---|---|---|---|---|
| Building 776 | 775-SV-04/D | 10/18/2006 | Soil Vapor 5-8 ft BGS | FD |
| | 776-SSV1 | 10/24/2006 | Sub-Slab Vapor | N |
| | 776-SSV2 | 10/24/2006 | Sub-Slab Vapor | N |
| | 776-IA1 | 12/20/2006 | Indoor Air | N |
| | 776-IA2 | 12/20/2006 | Indoor Air | N |
| **All Areas** | | | | |
| | OBGWV-TB1 | 10/24/2006 | – | TB |
| | TB-20-10-06 | 10/20/2006 | – | TB |
| | OBGWV-TB3 | 12/20/2006 | – | TB |

Key:
/D = Duplicate.
AOC 9 = Area of Concern 9.
B775 = Building 775.
B187 = Building 817.
BGS = Below ground surface.
FD = Field duplicate.
ft = Feet.
IA = Indoor air.
N = Original sample.
OA = Outdoor air.
SSV = Sub-slab vapor.
SV = Soil vapor.
TB = Trip blank.
WSA = Weapons Storage Area.

The following subsections describe the type and purpose of work performed at each site.

### 2.3.1 Apron 2 Chlorinated Plume

In order to determine if soil vapor is migrating into the existing buildings at the Apron 2 chlorinated plume site or is present in the areas that may be used as future building sites, the following samples plus appropriate quality assurance/quality control (QA/QC) samples were collected. Sample locations are shown on Figure 3-1 (see Section 3).

SVI Survey Sampling:

- No soil vapor samples were collected in October 2006 from this area because the soil was saturated from ground surface to more than 8 feet bgs and NYSDOH guidelines suggest that no sample be collected under these conditions.

**Table 2-2 Summary of Sample Containers, Amounts, Preservation, and Holding Times for Vapor Samples, Former Griffiss Air Force Base, Rome, NY**

| Method | Parameter | Sample Container [a] | Amount | Preservation | Holding Time [b] | |
|---|---|---|---|---|---|---|
| | | | | | Extraction | Analysis |
| **Vapor Samples** | | | | | | |
| EPA TO-15 | Volatile organics | 6L SUMMA® Canister | Full | None | NA | 30 days |

Notes:

[a] Samples chosen for quality assurance analysis require double the number of containers indicated.

[b] All numbers of days are from date of collection.

Key:

EPA = United States Environmental Protection Agency, "Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air," EPA 625/R-96-010a, June 1999.

NA = Not applicable.

- Ten sub-slab vapor samples and two duplicates were collected in October 2006. Two samples from each building were collected from beneath the concrete floors of Buildings 782, 783, 784, 785, and 786. (Two samples were collected due to the large size of each of the buildings.) The samples were centrally located within the buildings because the center of a building typically exhibits the highest levels of sub-slab soil vapor.

- Four indoor air samples, two from Building 785 and two from 786, and one duplicate were collected in December 2006 after evaluation of the sub-slab sampling results. The indoor air samples were collected in the same locations as the sub-slab samples previously collected.

- One outdoor air sample (ambient) was collected from between Buildings 785 and 786 during December 2006, after evaluation of the sub-slab sampling results. The outdoor sample location was approximately 70 feet from Building 785 and 30 feet from Building 786, where good air flow between the buildings exists.

### 2.3.2 Building 817/WSA

In order to determine if soil vapor is migrating into the existing Building 817 or is present in the areas that may be used as building sites in the future, the following samples plus appropriate QA/QC samples were collected. Sample locations are shown on Figure 3-2 (see Section 3).

SVI Survey Sampling:

- No soil vapor samples were collected in October 2006 from this area because the soil was saturated from ground surface to more than 8 feet bgs and NYSDOH guidelines suggest that no sample be collected under these conditions.

- One sub-slab vapor sample and one duplicate sample were collected in October 2006 from beneath the concrete floor of Building 817, centrally located within the building.

- One indoor air sample was collected in December 2006 from the same location as the sub-slab samples previously collected, after evaluation of the sub-slab sampling results.

- One outdoor air sample was collected during December 2006, after evaluation of the sub-slab sampling results.

### 2.3.3 AOC 9

No buildings are present at AOC 9. In order to determine whether soil vapor is present in the areas that may be used as future building sites at AOC 9, the

following samples plus appropriate QA/QC samples were collected. Sample locations are indicated on Figure 3-3 (see Section 3).

SVI Survey Sampling:

- In October 2006, six soil vapor samples from the areas with the highest levels of groundwater contamination were collected from between 4 and 8 feet bgs using direct push methods.

### 2.3.4 Building 775/Pumphouse 3

In order to determine if soil vapor is migrating into the existing buildings at the Building 775 site or is present in the areas that may be used as building sites in the future, the following samples plus appropriate QA/QC samples were collected. Sample locations are shown on Figure 3-4 (see Section 3).

SVI Survey Sampling:

- In October 2006 four soil vapor samples and one duplicate sample were collected from between 5 and 8 feet bgs using direct push methods in the area with the highest levels of groundwater contamination. The samples were collected from the open grassy areas south of Buildings 774 and 776.

- A total of four sub-slab vapor samples, two from Building 774 and two from 776, were collected in October 2006. Two sub-slab samples were collected from each building due to the large size of the buildings.

- A total of four indoor air samples were collected in December after evaluation of the sub-slab sampling results, two from within Building 774 and two from Building 776.

- One outdoor air sample was collected from between Buildings 774 and 776 during December 2006, after evaluation of the sub-slab sampling results. The outdoor sample was collected where good air flow between the buildings exists.

## 2.4 Equipment Decontamination

The Geoprobe® rig and all appurtenances were decontaminated with high-pressure steam prior to arrival at the site. All equipment was decontaminated again upon arrival at the site in accordance with the *Final Work Plan for Soil Vapor Intrusion Survey at Apron 2, Building 817/WSA, Building 775, and AOC 9, Griffiss Air Force Base, Rome, New York* (EEEPC September 2006).

All downhole equipment was decontaminated before and after each use. Once clean, no equipment was allowed to touch the ground prior to use. The equipment was stored on the drill rig, support truck, or on plastic sheeting.

## 2.5 Investigation-Derived Waste

The following types of investigation-derived waste (IDW) were generated during this investigation: decontamination water, disposable polyethylene tubing, and spent personal protection equipment (PPE). Decontamination water generated from sampling was field-screened for organic vapors with a photoionization detector (PID) and visually inspected to determine whether the water was potentially contaminated. No organic vapors or unusual odors/colors were detected. Therefore, all water was discharged to the surface near the sample location from which it was generated. All PPE and disposable polyethylene tubing and bailers were disposed of as non-regulated solid waste.

## 2.6 Sample Analysis

All original samples and QC samples, including duplicates and trip blanks, were sent to Severn-Trent Laboratories (STL)-Burlington for standard turnaround analyses. All the samples collected were analyzed using USEPA Method TO-15 (*Determination of Volatile Organic Compounds [VOCs] in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry [GC/MS]*). There is no target compound list (TCL) for Method TO-15; therefore, a USACE list of 43 compounds was initially used for soil vapor and sub-slab samples. For subsequent indoor/outdoor air sampling, a list of nine compounds was selected based on the results of the soil vapor and sub-slab samples. The indoor/outdoor air analyte list includes chlorinated VOCs as well as petroleum and fuel-related products that were detected at concentrations above or near the sub-slab screening levels in at least one sub-slab sample and/or at an elevated concentration in at least one soil vapor sample (m- and p-xylene isomers are reported in sum due to co-elution and are considered one analyte for the purpose of this discussion). Laboratory reports were consistent with NYSDEC Analytical Services Protocol (ASP) Category B deliverable requirements. Analyses were performed by STL, a laboratory approved by both the New York State Environmental Laboratory Accreditation Program (ELAP) air toxics program for this analytical method and the National Environmental Laboratory Approval Program (NELAP). A reporting limit of approximately 1 microgram per cubic meter ($\mu g/m^3$) was used for all compounds, with the exception of trichloroethene. In New York State, a reporting limit of 0.25 $\mu g/m^3$ must be met for trichloroethene in indoor and outdoor air samples. Full laboratory reports are provided in Appendix E.

## 2.7 Data Validation

All laboratory deliverables were reviewed in accordance with the Quality Assurance Project Plan (QAPP) contained within the *Final Work Plan for Soil Vapor Intrusion Survey at Apron 2, Building 817/WSA, Building 775, and AOC 9, Griffiss Air Force Base, Rome, New York* (EEEPC September 2006) and appropriate air sampling methods and general reporting requirements from NYSDEC's ASP (June 2000). The data were qualified following general guidelines in the *USEPA CLP National Functional Guidelines for Organic Data Review, EPA 540/R-99-008* (October 1999). Data Usability Summary Reports

(DUSRS) were prepared for each laboratory report (based on sample delivery group) as specified in NYSDEC's *Guidance for the Development of Quality Assurance Plans and Data Usability Summary Reports* (July 1999). The data review included an evaluation of the following:

- Holding times;
- Initial and continuing calibration;
- Reporting limits;
- Laboratory blanks;
- Field blanks;
- Laboratory control samples;
- Field duplicates;
- Sample result verification; and
- Method-specific QC samples (e.g., GC/MS tunes).

## 2.8 Screening Levels

Four types of samples were collected during this SVI survey: sub-slab vapor samples, soil vapor samples, indoor, and outdoor samples. For each sampling type, screening levels were calculated for an industrial/commercial scenario. Full details including assumptions, calculations, and tables with toxicity values, source information ad calculated screening levels, can be found in Appendix G.

# 3 Survey Findings

This section identifies the analytical data for all samples collected for this SVI survey. A summary of the analytical results for each sub-slab vapor sample is provided in Table 3-1, a summary for indoor and outdoor sample results is provided in Table 3-2, and for soil vapor sample results in Table 3-3. Screening levels used in these tables were derived for an industrial/commercial exposure scenario as described in Appendix G. The risk-based screening levels were compared against the sample results in order to determine the potential risk of the compound detected. Field duplicate sample results are included in the tables adjacent to the corresponding original sample. Complete analytical data are provided in Appendix E.

## 3.1 Apron 2 Chlorinated Plume

### 3.1.1 Sub-Slab Vapor Results

No exceedances were reported for the sub-slab samples collected at Buildings 782, 783, and 784. Building 785 results showed two COCs which exceeded the screening levels; chloroform, detected at levels of 32 and 190 µg/m$^3$, and TCE, detected at levels of 2,300 and 11,000 µg/m$^3$. TCE exceedances were also reported for Building 786 at concentrations of 700 J and 81,000 µg/m$^3$ (J indicates an estimated result). A PCE exceedance was also reported for Building 786 at 2,200 µg/m$^3$. Results for all sub-slab samples are located in Table 3-1. Sampling locations are shown on Figure 3-1.

### 3.1.2 Indoor/Outdoor Air Results

No exceedances were reported for indoor and outdoor air samples collected at Buildings 785 and 786. Benzene was the only chemical detected in both indoor at outdoor samples from Buildings 785 and 786 (1.1 -1.2 µg/m$^3$), but the concentrations were approximately two orders of magnitude lower that the screening criterion (88 µg/m$^3$). The detection in the outdoor sample (0.96 µg/m$^3$) was of the same magnitude as the indoor detections. One TCE detection was reported for Building 786, but the concentration (0.43 J µg/m$^3$) was two orders of magnitude lower than the screening criterion (41 µg/m$^3$). Results for all indoor and outdoor air samples are located in Table 3-2. Sampling locations are shown on Figure 3-1.

**Table 3-1 Summary of Results for Sub-Slab Soil Vapor at Griffiss AFB**

| Analyte | Sub-slab Vapor Screening Concentration (µg/m$^3$)[1] | October 24, 2006 | | | | | |
|---|---|---|---|---|---|---|---|
| | | 774-SSV1 | 774-SSV2 | 776-SSV1 | 776-SSV2 | B782-SSV1 | B782-SSV1/D |
| **Volatiles TO-15 (ug/m$^3$)** | | | | | | | |
| 1,1,1-trichloroethane | 146,000 | **55 J** | **28 J** | **33 J** | **15 J** | 1.1 UJ | 1.1 UJ |
| 1,1,2,2-tetrachloroethane | NA | 14 U | 6.9 U | 41 U | 7.6 U | 1.4 U | 1.4 U |
| 1,1,2-trichloroethane | NA | 11 U | 5.5 U | 32 U | 6.0 U | 1.1 U | 1.1 U |
| 1,1-dichloroethane | NA | 8.1 U | 4.0 U | 24 U | 81 U | 0.81 U | 0.81 U |
| 1,1-dichloroethene | NA | 7.9 U | 4.0 U | 23 U | 79 U | 0.79 U | 0.79 U |
| 1,2-dibromoethane (ethylene dibromide) | NA | 15 U | 7.7 U | 45 U | 8.5 U | 1.5 U | 1.5 U |
| 1,2-dichloroethane | 31 | 8.1 UJ | 4.0 UJ | 24 UJ | 81 UJ | 0.81 UJ | 0.81 UJ |
| 1,2-dichloropropane | NA | 9.2 U | 4.6 U | 27 U | 92 U | 0.92 U | 0.92 U |
| 1,2-dichlorotetrafluoroethane | NA | 14 U | 7.0 U | 41 U | 7.7 U | 1.4 U | 1.4 U |
| 1,3,5-trimethylbenzene (mesitylene) | 175 | 9.8 U | 4.9 U | 29 U | 98 U | **1.5** | **1.2** |
| 1,3-butadiene | NA | 11 U | 5.5 U | 33 U | 6.0 U | 1.1 U | 1.1 U |
| 2,2,4-trimethylpentane | NA | 9.3 U | 4.7 U | 28 U | 93 U | 0.93 U | 0.93 U |
| 4-ethyltoluene | NA | 9.8 U | 4.9 U | 29 U | 98 U | **1.4** | **1.5** |
| allyl chloride (3-chloropropene) | 29 | 16 U | 7.8 U | 47 U | 8.5 U | 1.6 U | 1.6 U |
| benzene | 105 | **9.6** | **3.8** | 19 U | 64 U | **3.1** | **3.2** |
| bromodichloromethane | NA | 13 U | 6.7 U | 40 U | 7.4 U | 1.3 U | 1.3 U |
| bromoform | NA | 21 U | 10 U | 61 U | 210 U | 2.1 U | 2.1 U |
| bromomethane | NA | 7.8 U | 3.9 U | 23 U | 78 U | 0.78 U | 0.78 U |
| carbon tetrachloride | 55 | 13 UJ | 6.3 UJ | 37 UJ | 6.9 UJ | 1.3 UJ | 1.3 UJ |
| chloroethane | NA | 5.3 U | 2.6 U | 16 U | 53 U | 0.53 U | 0.53 U |
| chloroform | 36 | **20** | 4.9 U | **54** | 98 U | 0.98 U | 0.98 U |
| cis-1,2-dichloroethylene | 1,022 | 7.9 U | 4.0 U | 23 U | 79 U | 0.79 U | 0.79 U |
| cis-1,3-dichloropropene | NA | 9.1 U | 4.5 U | 27 U | 91 U | 0.91 U | 0.91 U |
| cyclohexane | 175,200 | **15** | 3.4 U | 20 U | **9.6** | **3.3** | **2.9** |
| dibromochloromethane | NA | 17 U | 8.5 U | 50 U | 9.4 U | 1.7 U | 1.7 U |
| dichlorodifluoromethane | 5,840 | 25 U | 12 U | 74 U | 8900 U | 2.9 U | 2.8 U |
| ethylbenzene | 743 | 8.7 U | 4.3 U | 26 U | 87 U | **13** | **13** |
| m,p-xylene (sum of isomers) | 2,920 | 22 U | 11 U | 65 U | 220 U | **4.8** | **4.8** |
| n-heptane | NA | **34** | **9.4** | 24 U | 82 U | **7.4** | **6.6** |
| n-hexane | 20,440 | **42** | **9.9** | 53 U | **19** | **8.1** | **8.5** |
| o-xylene (1,2-dimethylbenzene) | 2,920 | 8.7 U | 4.3 U | 26 U | 87 U | **2.0** | **2.1** |
| tert-butyl methyl ether | 87,600 | 18 U | 9.0 U | 54 U | 9.7 U | 1.8 U | 1.8 U |
| tetrachloroethylene (pce) | 139 | 14 U | 6.8 U | 40 U | **31** | **16** | **17** |
| toluene | 146,000 | **23** | **11** | 22 U | **8.3** | **8.7** | **9.0** |

**Table 3-1 Summary of Results for Sub-Slab Soil Vapor at Griffiss AFB**

| Analyte | Sub-slab Vapor Screening Concentration ($\mu g/m^3$)[1] | October 24, 2006 | | | | | |
|---|---|---|---|---|---|---|---|
| | | 774-SSV1 | 774-SSV2 | 776-SSV1 | 776-SSV2 | B782-SSV1 | B782-SSV1/D |
| total 1,2-dichloroethene | 1,022 | 7.9 U | 4.0 U | 23 U | 79 U | 0.79 U | 0.79 U |
| trans-1,2-dichloroethene | NA | 7.9 U | 4.0 U | 23 U | 79 U | 0.79 U | 0.79 U |
| trans-1,3-dichloropropene | NA | 9.1 U | 4.5 U | 27 U | 91 U | 0.91 U | 0.91 U |
| trichloroethylene (tce) | 409 | **1700** | **810** | **3000** | **700** | 1.1 U | 1.1 U |
| trichlorofluoromethane | 20,440 | **360** | **79** | **4200** | **13** | **1.5** | **1.7** |
| vinyl bromide (bromoethene) | NA | 8.7 U | 4.4 U | 26 U | 87 U | 0.87 U | 0.87 U |
| vinyl chloride | 186 | 5.1 U | 2.6 U | 15 U | 51 U | 0.51 U | 0.51 U |
| xylenes, total | 2,920 | 8.7 U | 4.3 U | 26 U | 87 U | **6.9** | **6.9** |

## Table 3-1 Summary of Results for Sub-Slab Soil Vapor at Griffiss AFB

| Analyte | Sub-slab Vapor Screening Concentration (µg/m$^3$)[1] | October 24, 2006 | | | | | |
|---|---|---|---|---|---|---|---|
| | | B782-SSV2 | B783-SSV1 | B783-SSV2 | B784-SSV1 | B784-SSV2 | B785-SSV1 |
| **Volatiles TO-15 (ug/m$^3$)** | | | | | | | |
| 1,1,1-trichloroethane | 146,000 | **16 J** | **1.7 J** | 1.1 UJ | **11 J** | **13 J** | 76 UJ |
| 1,1,2,2-tetrachloroethane | NA | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 96 U |
| 1,1,2-trichloroethane | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 76 U |
| 1,1-dichloroethane | NA | 0.81 U | 0.81 U | 0.81 U | 0.81 U | 0.81 U | 57 U |
| 1,1-dichloroethene | NA | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 56 U |
| 1,2-dibromoethane (ethylene dibromide) | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 110 U |
| 1,2-dichloroethane | 31 | 0.81 UJ | 0.81 UJ | 0.81 UJ | 0.81 UJ | 0.81 UJ | 57 UJ |
| 1,2-dichloropropane | NA | 0.92 U | 0.92 U | 0.92 U | 0.92 U | 0.92 U | 65 U |
| 1,2-dichlorotetrafluoroethane | NA | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 98 U |
| 1,3,5-trimethylbenzene (mesitylene) | 175 | **1.4** | 0.98 U | **2.0** | **7.9** | **2.0** | 69 U |
| 1,3-butadiene | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 77 U |
| 2,2,4-trimethylpentane | NA | 0.93 U | 0.93 U | **0.93** | 0.93 U | 0.93 U | 65 U |
| 4-ethyltoluene | NA | **1.6** | 0.98 U | **2.0** | **5.4** | **1.5** | 69 U |
| allyl chloride (3-chloropropene) | 29 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 110 U |
| benzene | 105 | **2.0** | **19** | **8.0** | **11** | **12** | 45 U |
| bromodichloromethane | NA | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 94 U |
| bromoform | NA | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 140 U |
| bromomethane | NA | 0.78 U | 0.78 U | 0.78 U | 0.78 U | 0.78 U | 54 U |
| carbon tetrachloride | 55 | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ | 88 UJ |
| chloroethane | NA | 0.53 U | 0.53 U | 0.53 U | 0.53 U | 0.53 U | 37 U |
| chloroform | 36 | 0.98 U | **3.6** | 0.98 U | 0.98 U | 0.98 U | **190** |
| cis-1,2-dichloroethylene | 1,022 | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 0.79 U | **75** |
| cis-1,3-dichloropropene | NA | 0.91 U | 0.91 U | 0.91 U | 0.91 U | 0.91 U | 64 U |
| cyclohexane | 175,200 | **2.6** | **38** | **23** | **14** | **25** | **86** |
| dibromochloromethane | NA | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 120 U |
| dichlorodifluoromethane | 5,840 | 3.5 U | 2.7 U | 2.9 U | 3.1 U | 3.1 U | 250 U |
| ethylbenzene | 743 | **13** | 0.87 U | **4.3** | **13** | **9.6** | 61 U |
| m,p-xylene (sum of isomers) | 2,920 | **4.1** | 2.2 U | **13** | **15** | **13** | 150 U |
| n-heptane | NA | **6.1** | **15** | **17** | **45** | **49** | **90** |
| n-hexane | 20,440 | **8.1** | **60** | **27** | **42** | **67** | **230** |
| o-xylene (1,2-dimethylbenzene) | 2,920 | **1.5** | 0.87 U | **5.6** | **5.2** | **3.9** | 61 U |
| tert-butyl methyl ether | 87,600 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | **1.9** | 130 U |
| tetrachloroethylene (pce) | 139 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 95 U |
| toluene | 146,000 | **7.2** | **6.4** | **11** | **23** | **34** | **60** |

**Table 3-1 Summary of Results for Sub-Slab Soil Vapor at Griffiss AFB**

| Analyte | Sub-slab Vapor Screening Concentration ($\mu g/m^3$)[1] | October 24, 2006 | | | | | |
|---|---|---|---|---|---|---|---|
| | | B782-SSV2 | B783-SSV1 | B783-SSV2 | B784-SSV1 | B784-SSV2 | B785-SSV1 |
| total 1,2-dichloroethene | 1,022 | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 0.79 U | **75** |
| trans-1,2-dichloroethene | NA | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 56 U |
| trans-1,3-dichloropropene | NA | 0.91 U | 0.91 U | 0.91 U | 0.91 U | 0.91 U | 64 U |
| trichloroethylene (tce) | 409 | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | **11000** |
| trichlorofluoromethane | 20,440 | **1.8** | **1.3** | **1.5** | **1.6** | **2.0** | 79 U |
| vinyl bromide (bromoethene) | NA | 0.87 U | 0.87 U | 0.87 U | 0.87 U | 0.87 U | 61 U |
| vinyl chloride | 186 | 0.51 U | 0.51 U | 0.51 U | 0.51 U | 0.51 U | 36 U |
| xylenes, total | 2,920 | **5.6** | 0.87 U | **19** | **20** | **17** | 61 U |

## Table 3-1 Summary of Results for Sub-Slab Soil Vapor at Griffiss AFB

| Analyte | Sub-slab Vapor Screening Concentration ($\mu g/m^3$)[1] | October 24, 2006 | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B785-SSV2 | B786-SSV1 | B786-SSV2 | B786-SSV2/D | WSA-SSV1/D | WSA-SSV1 | OBGWV-TB1 |
| **Volatiles TO-15 ($ug/m^3$)** | | | | | | | | |
| 1,1,1-trichloroethane | 146,000 | **35** | 430 U | 33 U | 5.5 U | **2.3** | **2.2** | 1.1 U |
| 1,1,2,2-tetrachloroethane | NA | 21 U | 540 U | 41 U | 6.9 U | 1.4 U | 1.4 U | 1.4 U |
| 1,1,2-trichloroethane | NA | 16 U | 430 U | 33 U | 5.5 U | 1.1 U | 1.1 U | 1.1 U |
| 1,1-dichloroethane | NA | 12 U | 320 U | 24 U | 4.0 U | 0.81 U | 0.81 U | 0.81 U |
| 1,1-dichloroethene | NA | 12 U | 310 U | 24 U | 4.0 U | 0.79 U | 0.79 U | 0.79 U |
| 1,2-dibromoethane (ethylene dibromide) | NA | 23 U | 600 U | 46 U | 7.7 U | 1.5 U | 1.5 U | 1.5 U |
| 1,2-dichloroethane | 31 | 12 U | 320 U | 24 U | 4.0 U | 0.81 U | 0.81 U | 0.81 U |
| 1,2-dichloropropane | NA | 14 U | 360 U | 28 U | 4.6 U | 0.92 U | 0.92 U | 0.92 U |
| 1,2-dichlorotetrafluoroethane | NA | 21 U | 550 U | 42 U | 7.0 U | 1.4 U | 1.4 U | 1.4 U |
| 1,3,5-trimethylbenzene (mesitylene) | 175 | 15 U | 380 U | 29 U | 4.9 U | **0.98** | 0.98 U | 0.98 U |
| 1,3-butadiene | NA | 17 U | 440 U | 33 U | 5.5 U | 1.1 U | 1.1 U | 1.1 U |
| 2,2,4-trimethylpentane | NA | 14 U | 360 U | 28 U | 4.7 U | 0.93 U | 0.93 U | 0.93 U |
| 4-ethyltoluene | NA | 15 U | 380 U | 29 U | 4.9 U | 0.98 U | 0.98 U | 0.98 U |
| allyl chloride (3-chloropropene) | 29 | 23 U | 630 U | 47 U | 7.8 U | 1.6 U | 1.6 U | 1.6 U |
| benzene | 105 | **15** | 250 U | **24 J** | **8.9 J** | **3.5** | **3.5** | 0.64 U |
| bromodichloromethane | NA | 20 U | 520 U | 40 U | 6.7 U | 1.3 U | 1.3 U | 1.3 U |
| bromoform | NA | 31 U | 810 U | 62 U | 10 U | 2.1 U | 2.1 U | 2.1 U |
| bromomethane | NA | 12 U | 300 U | 23 U | 3.9 U | 0.78 U | 0.78 U | 0.78 U |
| carbon tetrachloride | 55 | 19 U | 490 U | 38 U | 6.3 U | 1.3 U | 1.3 U | 1.3 U |
| chloroethane | NA | 7.9 U | 210 U | 16 U | 2.6 U | 0.53 U | 0.53 U | 0.53 U |
| chloroform | 36 | **32** | 380 U | 29 U | 4.9 U | **120** | **140** | 0.98 U |
| cis-1,2-dichloroethylene | 1,022 | 12 U | **480** | 24 U | 4.0 U | 0.79 U | 0.79 U | 0.79 U |
| cis-1,3-dichloropropene | NA | 14 U | 350 U | 27 U | 4.5 U | 0.91 U | 0.91 U | 0.91 U |
| cyclohexane | 175,200 | **20** | 270 U | **31 J** | **9.6 J** | **4.1** | **4.1** | 0.69 U |
| dibromochloromethane | NA | 26 U | 660 U | 51 U | 8.5 U | 1.7 U | 1.7 U | 1.7 U |
| dichlorodifluoromethane | 5,840 | 37 U | 1900 U | 130 U | 12 U | 34 U | 36 U | 40 U |
| ethylbenzene | 743 | 13 U | 340 U | 26 U | 4.3 U | 0.87 U | 0.87 U | 0.87 U |
| m,p-xylene (sum of isomers) | 2,920 | 33 U | 870 U | 65 U | 11 U | 2.2 U | 2.2 U | 2.2 U |
| n-heptane | NA | **18** | 320 U | **41 J** | **8.6 J** | **4.9** | **4.5** | 0.82 U |
| n-hexane | 20,440 | **49** | 700 U | **88 J** | **23 J** | **11** | **11** | 1.8 U |
| o-xylene (1,2-dimethylbenzene) | 2,920 | 13 U | 340 U | 26 U | 4.3 U | 0.87 U | 0.87 U | 0.87 U |
| tert-butyl methyl ether | 87,600 | 27 U | 720 U | 54 U | 9.0 U | 1.8 U | 1.8 U | 1.8 U |
| tetrachloroethylene (pce) | 139 | 20 U | **2200** | 41 U | 6.8 U | 1.4 U | 1.4 U | 1.4 U |
| toluene | 146,000 | **13** | 290 U | 23 U | **12** | **12** | **11** | 0.75 U |

**Table 3-1 Summary of Results for Sub-Slab Soil Vapor at Griffiss AFB**

| Analyte | Sub-slab Vapor Screening Concentration ($\mu g/m^3$)[1] | October 24, 2006 | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B785-SSV2 | B786-SSV1 | B786-SSV2 | B786-SSV2/D | WSA-SSV1/D | WSA-SSV1 | OBGWV-TB1 |
| total 1,2-dichloroethene | 1,022 | 12 U | **480** | 24 U | 4.0 U | 0.79 U | 0.79 U | 0.79 U |
| trans-1,2-dichloroethene | NA | 12 U | 310 U | 24 U | 4.0 U | 0.79 U | 0.79 U | 0.79 U |
| trans-1,3-dichloropropene | NA | 14 U | 350 U | 27 U | 4.5 U | 0.91 U | 0.91 U | 0.91 U |
| trichloroethylene (tce) | 409 | **2300** | **81000** | **4700 J** | **700 J** | **130** | **130** | 1.1 U |
| trichlorofluoromethane | 20,440 | 17 U | 440 U | 34 U | 5.6 U | **7.3** | **7.3** | 1.1 U |
| vinyl bromide (bromoethene) | NA | 13 U | 340 U | 26 U | 4.4 U | 0.87 U | 0.87 U | 0.87 U |
| vinyl chloride | 186 | 7.7 U | 200 U | 15 U | 2.6 U | 0.51 U | 0.51 U | 0.51 U |
| xylenes, total | 2,920 | 13 U | 340 U | 26 U | 4.3 U | 0.87 U | 0.87 U | 0.87 U |

Notes:
[1] See Appendix G for sub-slab vapor screening level calculations.
Black numbers indicate detections.
Indicates exceedance of the screening concentration.
J..... = Estimated.
$\mu g/m^3$= Micrograms per cubic meter.
NA .. = No value was available to calculate.
U ..... = Not detected.

**Table 3-2 Summary of Results for Former Griffiss Air Force Base Indoor Air Samples**

| Analyte | Indoor Air Screening Concentration (µg/m$^3$)[1] | December 20, 2006 | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 774-IA1 | 774-IA2 | 774-IA2/D | 774-OA1 | 776-IA1 | 776-IA2 | 785-IA1 |
| **TO-15 (µg/m$^3$)** | | | | | | | | |
| 1,1-dichloroethene | NA | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| benzene | 88 | **1.3** | **1.5** | **1.3** | **1.2** | **1.3** | **1.2** | **1.1** |
| chloroform | 36 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | **1.0** | **0.83** | 0.20 U |
| cis-1,2-dichloroethylene | 102 | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| tetrachloroethylene (pce) | 102 | 0.27 U | 0.27 U | 0.27 U | 0.27 U | **0.75** | **0.61** | 0.27 U |
| total 1,2-dichloroethene | 102 | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| trans-1,2-dichloroethene | 102 | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| trichloroethylene (tce) | 41 | **2.4** | **3.4** | **3.0** | 0.21 U | **4.4** | **2.9** | 0.21 U |
| vinyl chloride | 186 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U |

## Table 3-2 Summary of Results for Former Griffiss Air Force Base Indoor Air Samples

| Analyte | Indoor Air Screening Concentration (µg/m$^3$)[1] | December 20, 2006 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 785-IA2 | 786-IA1 | 786-IA2 | 786-IA2/D | 786-OA1 | WSA-IA1 | WSA-OA1 | OBGWV-TB3 |
| **TO-15 (µg/m$^3$)** | | | | | | | | | |
| 1,1-dichloroethene | NA | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| benzene | 88 | **1.1** | **1.2** | **1.2** | **1.2** | **0.96** | **0.86** | **0.83** | 0.13 U |
| chloroform | 36 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U |
| cis-1,2-dichloroethylene | 102 | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| tetrachloroethylene(pce) | 102 | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.27 U |
| total 1,2-dichloroethene | 102 | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| trans-1,2-dichloroethene | 102 | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| trichloroethylene (tce) | 41 | 0.21 U | **0.43 J** | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| vinyl chloride | 186 | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U |

Notes:

[1] See Appendix G for indoor air and sub-slab vapor screening level calculations.

Black numbers indicate detections.

J..... = Estimated.

µg/m$^3$ ..... = Micrograms per cubic meter.

NA..... = No value was available to calculate.

U ..... = Not detected.

**Table 3-3 Summary of Results for Soil Vapor at Griffiss AFB**

| Analyte | Soil Vapor Screening Concentration ($\mu g/m^3$) [1] | October 18, 2006 | | | | | |
|---|---|---|---|---|---|---|---|
| | | 775-SV-01 | 775-SV-02 | 775-SV-03 | 775-SV-04 | 775-SV-04/D | AOC9-SV-01 |
| **Volatiles TO-15 (µg/m3)** | | | | | | | |
| 1,1,1-trichloroethane | 1,460,000 | 1.1 U | **22** | **55** | **1.3** | **1.2** | 3.3 U |
| 1,1,2,2-tetrachloroethane | NA | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 4.1 U |
| 1,1,2-trichloro-1,2,2-trifluoroethane (freon TF) | NA | 1.5 U | **2.9** | 1.5 U | 1.5 U | 1.5 U | 4.6 U |
| 1,1,2-trichloroethane | NA | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 3.3 U |
| 1,1-dichloroethane | NA | 0.81 U | 0.81 U | 0.81 U | 0.81 U | 0.81 U | 2.4 U |
| 1,1-dichloroethene | NA | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 2.4 U |
| 1,2,4-trichlorobenzene | NA | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 11 U |
| 1,2,4-trimethylbenzene | 1,752 | **4.2** | **3.1** | **4.8** | **3.6** | **3.3** | **5.4** |
| 1,2-dibromoethane (ethylene dibromide) | NA | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 4.6 U |
| 1,2-dichlorobenzene | NA | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 3.6 U |
| 1,2-dichloroethane | 314 | 0.81 U | 0.81 U | 0.81 U | 0.81 U | 0.81 U | 2.4 U |
| 1,2-dichloropropane | NA | 0.92 U | 0.92 U | 0.92 U | 0.92 U | 0.92 U | 2.8 U |
| 1,2-dichlorotetrafluoroethane | NA | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 4.2 U |
| 1,3,5-trimethylbenzene (mesitylene) | 1,752 | **1.1** | 0.98 U | **1.4** | 0.98 U | 0.98 U | 2.9 U |
| 1,3-butadiene | NA | **2.1** | **2.7** | **3.8** | **1.4** | **1.3** | **11** |
| 1,3-dichlorobenzene | 32,120 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 3.6 U |
| 1,4-dichlorobenzene | 233,600 | 1.2 U | 1.2 U | **1.6** | 1.2 U | 1.2 U | 3.6 U |
| 1,4-dioxane (p-dioxane) | NA | 18 UJ | 18 U | 18 U | 18 UJ | 18 UJ | 54 UJ |
| 2,2,4-trimethylpentane | NA | 0.93 U | 0.93 U | 0.93 U | 0.93 U | 0.93 U | 2.8 U |
| 2-chlorotoluene | NA | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 3.1 U |
| 2-hexanone (methyl butyl ketone) | NA | **3.9** | **2.3** | **7.4** | **2.8** | **2.4** | 6.1 U |
| 4-ethyltoluene | NA | 0.98 U | 0.98 U | 0.98 U | **2.0** | **1.3** | **3.9** |
| acetone | NA | **13** | **24** | **43** | **16** | **19** | **69** |
| allyl chloride (3-chloropropene) | NA | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 4.7 U |
| benzene | 1,048 | **0.70** | **1.1** | **2.3** | 0.64 U | 0.64 U | **12** |
| bromodichloromethane | NA | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 4.0 U |
| bromoform | NA | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 6.2 U |
| bromomethane | NA | 0.78 U | 0.78 U | 0.78 U | 0.78 U | 0.78 U | 2.3 U |
| carbon disulfide | 204,400 | **11** | **4.4** | **19** | **4.4 J** | **2.4 J** | **6.5** |
| carbon tetrachloride | 545 | 1.3 U | 1.3 U | **1.7** | 1.3 U | 1.3 U | 3.8 U |
| chlorobenzene | NA | 0.92 U | 0.92 U | 0.92 U | 0.92 U | 0.92 U | 2.8 U |
| chloroethane | NA | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 4.0 U |
| chloroform | 355 | 0.98 U | **3.5** | 0.98 U | 0.98 U | 0.98 U | 2.9 U |
| chloromethane | 8,176 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 3.1 U |

**Table 3-3 Summary of Results for Soil Vapor at Griffiss AFB**

| Analyte | Soil Vapor Screening Concentration ($\mu g/m^3$) [1] | October 18, 2006 | | | | | |
|---|---|---|---|---|---|---|---|
| | | 775-SV-01 | 775-SV-02 | 775-SV-03 | 775-SV-04 | 775-SV-04/D | AOC9-SV-01 |
| cis-1,2-dichloroethylene | 10,220 | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 0.79 U | **19** |
| cis-1,3-dichloropropene | NA | 0.91 U | 0.91 U | 0.91 U | 0.91 U | 0.91 U | 2.7 U |
| cyclohexane | 1,752,000 | 0.69 U | **0.79** | **2.7** | 0.69 U | 0.69 U | **15** |
| dibromochloromethane | NA | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 5.1 U |
| dichlorodifluoromethane | 58,400 | 3.8 U | 4.2 U | 3.7 U | 3.3 U | 3.4 U | 7.4 U |
| ethylbenzene | 7,433 | **3.0** | **2.3** | **4.8** | **1.8** | **1.6** | **4.8** |
| hexachlorobutadiene | NA | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 6.4 U |
| isopropanol | NA | 12 U | 12 U | 12 U | 12 U | 12 U | 37 U |
| m,p-xylene (sum of isomers) | 29,200 | **10** | **7.4** | **15** | **6.1** | **5.6** | **14** |
| methyl ethyl ketone (2-butanone) | 1,460,000 | **27** | **14** | **41** | **19** | **19** | **35** |
| methyl isobutyl ketone (4-methyl-2-pentanone) | 876,000 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 6.1 U |
| methyl methacrylate | NA | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 6.1 U |
| methylene chloride | 17,396 | 1.7 U | 1.7 U | **3.8** | 1.7 U | 1.7 U | 5.2 U |
| naphthalene | NA | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 7.9 U |
| n-heptane | NA | **2.3** | **2.4** | **7.8** | **1.5** | **1.4** | **23** |
| n-hexane | 204,400 | **2.6** | **2.7** | **9.5** | **2.0** | **2.0** | **35** |
| o-xylene (1,2-dimethylbenzene) | 29,200 | **2.6** | **2.1** | **4.0** | **1.7** | **1.5** | **3.9** |
| styrene | 292,000 | **4.7** | **3.2** | **5.5** | **3.0** | **2.7** | **7.2** |
| tert-butyl alcohol | NA | 15 U | 15 U | 15 U | 15 U | 15 U | 45 U |
| tert-butyl methyl ether | 876,000 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 5.4 U |
| tetrachloroethylene(pce) | 1386 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | **610** |
| tetrahydrofuran | NA | 15 U | 15 UJ | 15 UJ | 15 U | 15 U | 44 U |
| toluene | 1,460,000 | **9.8** | **8.3** | **18** | **7.2** | **6.8** | **19** |
| total 1,2-dichloroethene | 10,220 | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 0.79 U | **19** |
| trans-1,2-dichloroethene | 10,220 | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 2.4 U |
| trans-1,3-dichloropropene | NA | 0.91 U | 0.91 U | 0.91 U | 0.91 U | 0.91 U | 2.7 U |
| trichloroethylene (tce) | 4088 | 1.1 U | 1.1 U | **70** | 1.1 U | 1.1 U | **17** |
| trichlorofluoromethane | 204,400 | **10** | **3.8** | **12** | **9.6** | **9.0** | 3.4 U |
| vinyl bromide (bromoethene) | NA | 0.87 U | 0.87 U | 0.87 U | 0.87 U | 0.87 U | 2.6 U |
| vinyl chloride | 1858 | 0.51 U | 0.51 U | 0.51 U | 0.51 U | 0.51 U | 1.5 U |
| xylenes, total | 29,200 | **13** | **9.6** | **20** | **7.8** | **6.9** | **18** |

## Table 3-3 Summary of Results for Soil Vapor at Griffiss AFB

| Analyte | Soil Vapor Screening Concentration (µg/m$^3$) [1] | 18-Oct-2006 | | | | | |
|---|---|---|---|---|---|---|---|
| | | AOC9-SV-02 | AOC9-SV-03 | AOC9-SV-04 | AOC9-SV-05 | AOC9-SV-06 | TB-20-10-06 |
| **Volatiles TO-15 (µg/m3)** | | | | | | | |
| 1,1,1-trichloroethane | 1,460,000 | 2.2 U | 6.5 U | 3.3 U | 1.6 U | 1.1 U | 1.1 U |
| 1,1,2,2-tetrachloroethane | NA | 2.7 U | 8.2 U | 4.1 U | 2.1 U | 1.4 U | 1.4 U |
| 1,1,2-trichloro-1,2,2-trifluoroethane (freon TF) | NA | 3.1 U | 9.2 U | 4.6 U | 2.3 U | 1.5 U | 1.5 U |
| 1,1,2-trichloroethane | NA | 2.2 U | 6.5 U | 3.3 U | 1.6 U | 1.1 U | 1.1 U |
| 1,1-dichloroethane | NA | 1.6 U | 4.9 U | 2.4 U | 1.2 U | 0.81 U | 0.81 U |
| 1,1-dichloroethene | NA | 1.6 U | 4.8 U | 2.4 U | 1.2 U | 0.79 U | 0.79 U |
| 1,2,4-trichlorobenzene | NA | 7.4 U | 22 U | 11 U | 5.6 U | 3.7 U | 3.7 U |
| 1,2,4-trimethylbenzene | 1,752 | **2.7** | 5.9 U | **3.0** | **3.9** | **3.3** | 0.98 U |
| 1,2-dibromoethane (ethylene dibromide) | NA | 3.1 U | 9.2 U | 4.6 U | 2.3 U | 1.5 U | 1.5 U |
| 1,2-dichlorobenzene | NA | 2.4 U | 7.2 U | 3.6 U | 1.8 U | 1.2 U | 1.2 U |
| 1,2-dichloroethane | 314 | 1.6 U | 4.9 U | 2.4 U | 1.2 U | 0.81 U | 0.81 U |
| 1,2-dichloropropane | NA | 1.8 U | 5.5 U | 2.8 U | 1.4 U | 0.92 U | 0.92 U |
| 1,2-dichlorotetrafluoroethane | NA | 2.8 U | 8.4 U | 4.2 U | 2.1 U | 1.4 U | 1.4 U |
| 1,3,5-trimethylbenzene (mesitylene) | 1,752 | 2.0 U | 5.9 U | 2.9 U | 1.5 U | 0.98 U | 0.98 U |
| 1,3-butadiene | NA | **4.4** | 6.6 U | 3.3 U | **10** | **6.4** | 1.1 U |
| 1,3-dichlorobenzene | 32,120 | 2.4 U | 7.2 U | 3.6 U | 1.8 U | 1.2 U | 1.2 U |
| 1,4-dichlorobenzene | 233,600 | 2.4 U | 7.2 U | 3.6 U | 1.8 U | 1.2 U | 1.2 U |
| 1,4-dioxane (p-dioxane) | NA | 36 UJ | 110 UJ | 54 UJ | 27 UJ | 18 UJ | 18 U |
| 2,2,4-trimethylpentane | NA | 1.9 U | 5.6 U | 2.8 U | 1.4 U | 0.93 U | 0.93 U |
| 2-chlorotoluene | NA | 2.1 U | 6.2 U | 3.1 U | 1.6 U | 1.0 U | 1.0 U |
| 2-hexanone (methyl butyl ketone) | NA | 4.1 U | 12 U | **22** | **6.1** | **11** | 2.0 U |
| 4-ethyltoluene | NA | 2.0 U | 5.9 U | 2.9 U | **2.7** | **2.1** | 0.98 U |
| acetone | NA | **48** | 71 U | 36 U | **62** | **55** | 12 U |
| allyl chloride (3-chloropropene) | NA | 3.1 U | 9.4 U | 4.7 U | 2.3 U | 1.6 U | 1.6 U |
| benzene | 1,048 | **1.7** | 3.8 U | 1.9 U | **3.5** | **3.0** | 0.64 U |
| bromodichloromethane | NA | 2.7 U | 8.0 U | 4.0 U | 2.0 U | 1.3 U | 1.3 U |
| bromoform | NA | 4.1 U | 12 U | 6.2 U | 3.1 U | 2.1 U | 2.1 U |
| bromomethane | NA | 1.6 U | 4.7 U | 2.3 U | 1.2 U | 0.78 U | 0.78 U |
| carbon disulfide | 204,400 | **5.3** | 9.3 U | 4.7 U | **3.4** | **5.3** | 1.6 U |
| carbon tetrachloride | 545 | 2.5 U | 7.5 U | 3.8 U | 1.9 U | 1.3 U | 1.3 U |
| chlorobenzene | NA | 1.8 U | 5.5 U | 2.8 U | 1.4 U | **1.4** | 0.92 U |
| chloroethane | NA | 2.6 U | 7.9 U | 4.0 U | 2.0 U | 1.3 U | 1.3 U |
| chloroform | 355 | 2.0 U | 5.9 U | 2.9 U | 1.5 U | 0.98 U | 0.98 U |
| chloromethane | 8,176 | 2.1 U | 6.2 U | 3.1 U | 1.5 U | 1.0 U | 1.0 U |

**Table 3-3 Summary of Results for Soil Vapor at Griffiss AFB**

| Analyte | Soil Vapor Screening Concentration (µg/m$^3$) [1] | 18-Oct-2006 | | | | | |
|---|---|---|---|---|---|---|---|
| | | AOC9-SV-02 | AOC9-SV-03 | AOC9-SV-04 | AOC9-SV-05 | AOC9-SV-06 | TB-20-10-06 |
| cis-1,2-dichloroethylene | 10,220 | **15** | 4.8 U | 2.4 U | 1.2 U | 0.79 U | 0.79 U |
| cis-1,3-dichloropropene | NA | 1.8 U | 5.4 U | 2.7 U | 1.4 U | 0.91 U | 0.91 U |
| cyclohexane | 1,752,000 | 1.4 U | 4.1 U | 2.1 U | 1.0 U | **2.2** | 0.69 U |
| dibromochloromethane | NA | 3.4 U | 10 U | 5.1 U | 2.6 U | 1.7 U | 1.7 U |
| dichlorodifluoromethane | 58,400 | 4.9 U | 15 U | 7.4 U | 3.7 U | 3.0 U | 33 U |
| ethylbenzene | 7,433 | **3.0** | 5.2 U | 2.6 U | **3.5** | **2.3** | 0.87 U |
| hexachlorobutadiene | NA | 4.3 U | 13 U | 6.4 U | 3.2 U | 2.1 U | 2.1 U |
| isopropanol | NA | 25 U | 74 U | 37 U | 18 U | 12 U | 12 U |
| m,p-xylene (sum of isomers) | 29,200 | **8.7** | 13 U | **7.4** | **13** | **6.9** | 2.2 U |
| methyl ethyl ketone (2-butanone) | 1,460,000 | **18** | **47** | **150** | **44** | **94** | 1.5 U |
| methyl isobutyl ketone (4-methyl-2-pentanone) | 876,000 | 4.1 U | 12 U | 6.1 U | 3.1 U | 2.0 U | 2.0 U |
| methyl methacrylate | NA | 4.1 U | 12 U | 6.1 U | 3.1 U | 2.0 U | 2.0 U |
| methylene chloride | 17,396 | 3.5 U | 10 U | 5.2 U | 2.6 U | 1.7 U | 1.7 U |
| naphthalene | NA | 5.2 U | 16 U | 7.9 U | 3.9 U | 2.6 U | 2.6 U |
| n-heptane | NA | **2.7** | 4.9 U | 2.5 U | **4.5** | **7.4** | 0.82 U |
| n-hexane | 204,400 | **5.3** | 11 U | 5.3 U | **6.3** | **13** | 1.8 U |
| o-xylene (1,2-dimethylbenzene) | 29,200 | **2.3** | 5.2 U | 2.6 U | **3.7** | **2.0** | 0.87 U |
| styrene | 292,000 | **4.2** | 5.1 U | **3.9** | **4.7** | **3.5** | 0.85 U |
| tert-butyl alcohol | NA | 30 U | 91 U | 45 U | 23 U | 15 U | 15 U |
| tert-butyl methyl ether | 876,000 | 3.6 U | 11 U | 5.4 U | 2.7 U | 1.8 U | 1.8 U |
| tetrachloroethylene(pce) | 1386 | **170** | **460** | **250** | **190** | **130** | 1.4 U |
| tetrahydrofuran | NA | 29 U | 88 U | 44 U | 22 U | 15 U | 15 UJ |
| toluene | 1,460,000 | **12** | **15** | **14** | **17** | **8.7** | 0.75 U |
| total 1,2-dichloroethene | 10,220 | **15** | 4.8 U | 2.4 U | 1.2 U | 0.79 U | 0.79 U |
| trans-1,2-dichloroethene | 10,220 | 1.6 U | 4.8 U | 2.4 U | 1.2 U | 0.79 U | 0.79 U |
| trans-1,3-dichloropropene | NA | 1.8 U | 5.4 U | 2.7 U | 1.4 U | 0.91 U | 0.91 U |
| trichloroethylene (tce) | 4088 | **270** | **810** | **440** | **180** | **27** | 1.1 U |
| trichlorofluoromethane | 204,400 | 2.2 U | 6.7 U | 3.4 U | 1.7 U | **1.5** | 1.1 U |
| vinyl bromide (bromoethene) | NA | 1.7 U | 5.2 U | 2.6 U | 1.3 U | 0.87 U | 0.87 U |
| vinyl chloride | 1858 | 1.0 U | 3.1 U | 1.5 U | 0.77 U | 0.51 U | 0.51 U |
| xylenes, total | 29,200 | **11** | 5.2 U | **7.4** | **17** | **9.1** | 0.87 U |

Notes:
[1] See Appendix G for soil vapor screening level calculations.
Black numbers indicate detections.
U = Not detected.

### 3.1.3 Site Inventory Observations

Site inspections and product inventories were conducted for Buildings 785 and 786 to check the quality of indoor air and identify potential sources/products that might affect indoor air sample results. The building inspections and product inventories were recorded on NYSDOH Indoor Air Quality Questionnaire and Building Inventory Forms (NYSDOH February 2005), with modifications to incorporate additional information. Photographs of the sample locations and products found in the structures were also collected. Completed Indoor Air Quality Questionnaire and Building Inventory Forms for each structure sampled are provided in Appendix C of this report. Photographs are located in Appendix A. A ppb RAE meter was used to measure the total VOC concentrations at different locations. The contaminant concentrations in Building 785 and 786 were detected at levels ranging from 0 to 2,800 ppb and the highest concentration was detected in the general holding area for motor oil drums and paint cans in Building 785 (see Appendix A, Photo No. 58). No potential sources of the COCs present in the Apron 2 groundwater plume (i.e., PCE, TCE, DCE, or VC) were observed during the inventories of Building 785 or 786.

## 3.2 Building 817/WSA

### 3.2.1 Sub-Slab Vapor Results

Chloroform was detected in the Building 817/WSA sub-slab samples at levels exceeding the screening levels. Chloroform was detected in the sub-slab vapor samples at levels of 120 and 140 $\mu g/m^3$. TCE was also detected at 130 $\mu g/m^3$, which is below the screening levels of 409 $\mu g/m^3$. Results for all sub-slab samples are located in Table 3-1. Sample locations are shown on Figure 3-2.

### 3.2.2 Indoor/Outdoor Air Results

No exceedances of the screening levels were reported for the indoor and outdoor air samples at Building 817/WSA. Only benzene was detected (0.86 $\mu g/m^3$) which is two orders of magnitude lower than the screening criterion (88 $\mu g/m^3$). It should be noted that benzene was detected at a virtually identical level in the outdoor air sample (0.83 $\mu g/m^3$), which was collected near the northeast corner of the building. Results for all samples are located in Table 3-2. Sample locations are shown on Figure 3-2.

### 3.2.3 Site Inventory Observation

A site inspection and product inventory was conducted for Building 817 to check the quality of indoor air and identify potential sources/products that might affect indoor air sample results. The building inspections and product inventories were recorded on NYSDOH Indoor Air Quality Questionnaire and Building Inventory Forms (NYSDOH February 2005), with modifications to incorporate additional information. Photographs of the sample locations and products found in the structures were also collected. Completed Indoor Air Quality Questionnaire and Building Inventory Forms for each structure sampled are provided in Appendix C

Insert Figure page 1 of 2

**3-1 Apron 2 Groundwater Plume and SVI Survey Sample Location Map**

Figure 3-1 page 2 of 2

Insert Figure page 1 of 2

**3-2 Building 817/WSA Groundwater Plume and SVI Survey Sample Location Map**

Figure 3-2 page 2 of 2

of this report. Photographs are located in Appendix A. A ppb RAE meter was used to measure the total VOC concentrations at different locations. No contaminant sources were detected in the building and a reading of 0 ppb was measured at all the locations.

## 3.3 AOC 9

### 3.3.1 Soil Vapor Results

Six soil vapor samples (from 5 to 8 feet bgs) were collected at AOC9. The results and the screening levels to which these results are compared, are located in Table 3-3. The soil vapor screening levels were calculated as described in Appendix G. PCE and TCE were detected in all six soil vapor samples collected and all detections were below the screening levels. PCE was detected at levels ranging from 130 to 610 $\mu g/m^3$. TCE was detected at levels ranging from 17 to 810 $\mu g/m^3$. Chlorobenzene was detected in only one sample at a concentration of 1.4 $\mu g/m^3$. Sample locations are shown on Figure 3-3.

## 3.4 Building 775/Pumphouse 3

### 3.4.1 Soil Vapor Results

Four soil vapor samples were collected at the Building 775 site. The results and the screening levels to which these results are compared, are located in Table 3-3. The soil vapor screening levels were calculated as described in Appendix G. PCE was not detected in any of the soil vapor samples collected at the Building 775 site. TCE and chloroform were each detected in one sample at concentrations of 70 $\mu g/m^3$ and 3.5 $\mu g/m^3$, respectively. Sample locations are shown on Figure 3-4.

### 3.4.2 Sub-Slab Results

Chloroform and TCE exceedances were reported for the sub-slab vapor samples from the Building 775 site. TCE exceedances in the sub-slab vapor samples under Building 774 (810 - 1,700 $\mu g/m^3$) and Building 776 (700 - 3,000 $\mu g/m^3$) all exceeded the screening levels. Only one chloroform exceedance was reported at the Building 775 site: one sub-slab sample at Building 776 had a chloroform detection of 54 $\mu g/m^3$, which exceeded the screening level of 36 $\mu g/m^3$. Results for all samples are located in Table 3-1. Sample locations are shown on Figure 3-4.

### 3.4.3 Indoor/Outdoor Air Results

No exceedances of the screening levels were reported for indoor and outdoor air samples collected at Buildings 774 and 776. Four chemicals were detected in the indoor air samples: benzene, chloroform, PCE and TCE. Chloroform and TCE detections were one order of magnitude lower than the screening levels and benzene and PCE detections were generally two orders of magnitude lower than the screening levels. Benzene was the only chemical detected in the outdoor air sample at generally the same detection as in the indoor air. Results for all samples are located in Table 3-2. Sample locations are shown on Figure 3-4.

### 3.4.4 Site Inventory Observations

Site inspections and product inventories were conducted for Buildings 774 and 776 to check the quality of indoor air and identify potential sources/products that might affect indoor air sample results in the vicinity of Building 775. The building inspections and product inventories were recorded on NYSDOH Indoor Air Quality Questionnaire and Building Inventory Forms (NYSDOH February 2005), with modifications to incorporate additional information. Photographs of the sample locations and products found in the structures were also collected. Completed Indoor Air Quality Questionnaire and Building Inventory Forms for each structure sampled are provided in Appendix C of this report. Photographs are located in Appendix A. A ppb RAE meter was used to measure the total VOC concentrations throughout the buildings. Total VOC concentrations in the breathing zones ranged from 15 to 45 ppb in Building 774 and from 0 to 96 ppb in Building 776. Higher total VOC concentrations were detected from products in the janitor's closets and from floor drains within the buildings (see Appendix C). No potential sources of the COCs present in the Building 775 groundwater plume were observed during the inventories of Buildings 774 and 776.

## 3.5 Quality Assurance/Quality Control

Field QC samples included six duplicates and three trip blanks. Duplicate samples provide insight as to the homogeneity of the sample matrix and establish a degree of confidence that the sample represents site conditions. Field duplicates were collected at the rate of one duplicate per ten original samples (10%). Soil vapor and sub-slab field duplicates were collected by installing an in-line "tee," which split the flow coming from the sample tubing penetrating the floor to two identically prepared canisters set up next to each other, each collecting vapors at identical flow rates. Ambient air duplicates were set up with two canisters next to one another. A review of the duplicate sample results may be found in the DUSRs provided in Appendix F. In general, the field duplicates showed good precision. One set of duplicates, B786-SSV2 and B786-SSV2/D, showed poor precision and the results were flagged "J" as estimated. The analytical results did not indicate a problem at the laboratory. The variability indicates potential limitations on the data when comparing the data with screening levels. Because the other field duplicates showed good precision, there does not appear to be an overall impact on data usability associated with the field duplicate sample results.

Trip blanks were collected to establish that the transport of sample canisters to and from the field did not result in the contamination of the sample from external sources. One trip blank, consisting of an unopened canister shipped to and from the field with the sample collection canisters, was sent with each sample shipment. Three trip blanks were analyzed. Trip blank results are discussed in the DUSRs in Appendix F. There were no impacts on data usability associated with the trip blank sample results. The laboratory had a contamination problem with dichlorodifluoromethane that resulted in trip blank contamination at

Insert Figure page 1 of 2

**3-3 AOC 9 Groundwater Plume and SVI Survey Sample Location Map**

Figure 3-3 page 2 of 2

Insert Figure page 1 of 2

**3-4 Building 775 Groundwater Plume and SVI Survey Sample Location Map**

Figure 3-4 page 2 of 2

concentrations above those detected in samples. The dichlorodifluoromethane was introduced to the sample with the "laboratory zero air." All the samples that were diluted or brought to pressure with laboratory zero air also showed contamination. The results for dichlorodifluoromethane are all flagged "U" as non-detect with elevated reporting limits. The results for dichlorodifluoromethane are not usable for evaluating site contamination. Since this compound is not a compound of concern at the site, there is no overall impact on data usability.

DUSRs were prepared for all of the laboratory reports by the project chemist. All DUSRs were reviewed by the Quality Assurance Director. DUSRs for the laboratory reports are provided in Appendix F. Any deviations from acceptable QC specifications are discussed in the DUSRs. Qualifiers were added to the data, if appropriate, to indicate potential concerns with data usability and these qualifiers were transferred to the data summary tables. There were no significant impacts on data usability.

# 4 Conclusions and Recommendations

This section summarizes the sampling results of the SVI survey and provides conclusions and recommendations.

## 4.1 Apron 2 Chlorinated Plume

The Apron 2 Chlorinated Plume site consists of a large, 14-inch thick, concrete apron flanked by five large (appr. 28,000 sq. ft.), poorly-maintained, permeable, unoccupied, and unheated Nosedocks (Buildings 782 - 786).

**Sub-slab vapor sampling:** Sub-slab sampling at Buildings 782, 783, and 784 shows detections below the screening levels. Therefore, the risks appear within the acceptable range and no further action or evaluation of SVI is required for these three buildings. Sub-slab sampling at Buildings 785 and 786 indicates TCE (700 J to 81,000 µg/m$^3$) exceeding screening levels in the sub-slab vapor beneath Buildings 785 and 786, chloroform (190 µg/m$^3$) exceeding screening levels beneath Building 785 only, and PCE (2,200 µg/m$^3$) exceeding screening levels beneath Building 786 only. These detections are above screening levels and thus indoor air sampling was conducted in the respective buildings.

**Indoor and outdoor air sampling:** Indoor air sampling shows only one TCE detection of 0.43 µg/m$^3$ in Building 786 and fairly uniform benzene detections of 1.1 µg/m$^3$ in both buildings, but all concentrations are below screening levels. Indoor and outdoor air samples are below the screening levels and thus indicate acceptable risk.

**Conclusions:** The sub-slab vapor samples from Building 785 and 786 are above screening levels. However, the indoor air samples show an acceptable risk thus indicating that the concrete slab at these buildings (13.5 to 14-inch thick) provides an adequate SVI barrier. TCE exceedances have been reported in groundwater samples from wells at this site.

**Recommendations:** Because the Building 785 and 786 indoor air levels indicate acceptable risk and due to the quality of the vapor barrier provided by the building foundation, no further action is recommended for control of SVI into indoor air. However, the sub-slab levels are higher than expected. The Air Force will resample the buildings in the winter of 2007-2008 to confirm the findings reported in this report. If the higher than expected sub-slab levels are confirmed,

the Air Force will consider whether mitigation is needed for potential contamination below the building. Institutional controls concerning future construction and concerning maintenance of slab integrity will be implemented at the site.

## 4.2 Building 817/WSA

One one-story, unheated, unoccupied, appr. 8,250 sq. ft. building is located on the northern extent of the site. One road crosses the site and all other surface area is vegetated.

**Sub-slab vapor sampling:** Chloroform exceedances (120 and 140 µg/$m^3$) of the screening level (36 µg/$m^3$) are reported in the sub-slab samples from Building 817. TCE is also present, but at concentrations below the screening levels.

**Indoor and outdoor air sampling:** No exceedances are reported in the indoor and outdoor air samples. Indoor and outdoor air samples are below the screening levels and thus indicate acceptable risk.

**Conclusions:** The sib-slab vapor levels for chloroform are above the screening levels, but the levels are within one order of magnitude. Chloroform has been detected in groundwater samples collected at the site. Chloroform is found in drinking water and its presence in groundwater is generally attributable to infiltrating drinking water from leaking water lines. Therefore, chloroform is not believed to be a site-specific COC.

**Recommendations:** The only detection above screening levels is for chloroform in the sub-slab, and its presence can likely be attributed to infiltrating drinking water and it is not believed to be a site-specific COC. Therefore, the risks appear within the acceptable range and no further action or evaluation of SVI is required at this site.

## 4.3 AOC 9

The AOC 9 site is a vegetation-covered area with an increasing slope towards the southern extent of the site. No buildings exist on the site. One road crosses the site at the northern extent.

**Soil vapor sampling:** Soil vapor sampling in AOC 9 indicates that low levels of several contaminants and elevated PCE and TCE detections are present within the soil vapor above the groundwater plume. None of the detected vapor concentrations were above the screening levels.

**Conclusions:** The soil vapor levels were all below the screening levels.

**Recommendations:** All detections in the soil vapor samples collected at the AOC 9 site are below screening levels and they are indicative of acceptable risk. Therefore, no further action or evaluation of SVI is required at the AOC 9 site.

## 4.4 Building 775/Pumphouse 3

This site consists of a parking lot, roads, and is flanked on the northern extent by two large (appr. 19,000 [Building 774] and 27,000 sq. ft. [Building 776]), one-story office buildings. The southern extent of the site is mowed grass land.

**Sub-slab vapor sampling:** Sub-slab sampling at the Building 775/Pumphouse 3 site indicates TCE (700 - 3,000 µg/$m^3$) exceeding screening levels in the sub-slab vapor beneath Buildings 774 and 776 and chloroform (54 µg/$m^3$) exceeding screening levels beneath Building 776 only. These detections are above screening levels, and indoor air sampling was conducted in the respective buildings.

**Indoor and outdoor air sampling:** Indoor air sampling results show low TCE and chloroform detections, but at concentrations below the screening levels.

**Conclusions:** TCE detections in the sub-slab vapor samples from Buildings 774 and 776 were above screening levels. However, the indoor air samples results are below screening levels and indicate acceptable risk. This provides evidence that the concrete slabs at these buildings (3.5 to 8-inch thick) provide an adequate SVI barrier.

**Recommendations:** Because the indoor air levels indicate acceptable risk and due to the quality of the vapor barrier provided by the building foundation, no further action is recommended for control of SVI into indoor air. However, the sub-slab levels are higher than expected. The Air Force will resample the buildings in the winter of 2007-2008 to confirm the findings reported in this report. If the higher than expected sub-slab levels are confirmed, the Air Force will consider whether mitigation is needed for potential contamination below the building. Institutional controls concerning future construction and concerning maintenance of slab integrity will be implemented at the site.

# 5 References


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# A Photo Log

**Former Griffiss AFB Fieldwork Photos**

| Date | Photo/Frame No.: | Site | Description | Photographer |
|---|---|---|---|---|
| 10/24/2006 | SubSlab Vapor – 1 | 817 | Canisters set at WSA-SSV1, WSA-SSV1/D and WSA-SSV/S | AH |
| 10/24/2009 | SubSlab Vapor – 2 | 817 | Canisters set at WSA-SSV1, WSA-SSV1/D and WSA-SSV/S | AH |
| 10/24/2006 | SubSlab Vapor – 3 | 817 | Canisters set at B785-SSV1 | AH |
| 10/24/2006 | SubSlab Vapor – 4 | 817 | Canisters set at B785-SSV2 | AH |
| 10/24/2006 | SubSlab Vapor – 5 | 817 | Canisters set at B784-SSV1 | AH |
| 10/24/2006 | SubSlab Vapor – 6 | 817 | Canisters set at B784-SSV2 | AH |
| 10/25/2006 | SubSlab Vapor – 7 | 817 | Canisters set at B786-SSV1 | AH |
| 10/25/2006 | SubSlab Vapor – 8 | 817 | Canisters set at B786-SSV2 | AH |
| 10/25/2006 | SubSlab Vapor – 9 | 817 | Canisters set at B783-SSV1 | AH |
| 10/25/2006 | SubSlab Vapor – 10 | 817 | Canisters set at B783-SSV2 | AH |
| 10/25/2006 | SubSlab Vapor – 11 | 817 | Canisters set at B782-SSV1 | AH |
| 10/25/2006 | SubSlab Vapor – 12 | 817 | Canisters set at B782-SSV2 | AH |
| 10/18/2006 | Soil Vapor – 1 | AOC9 | Attaching tubing to probe | BC |
| 10/18/2006 | Soil Vapor – 1 | AOC9 | PID Scan | BC |
| 10/18/2006 | Soil Vapor – 3 | AOC9 | PID Reading | BC |
| 10/18/2006 | Soil Vapor – 4 | AOC9 | Releasing probe | BC |
| 10/18/2006 | Soil Vapor – 5 | AOC9 | Soil Gas | BC |
| 10/18/2006 | Soil Vapor – 6 | AOC9 | Soil Gas – 2 | BC |
| 10/18/2006 | Soil Vapor – 7 | AOC9 | Soil Gas – 3 | BC |
| 10/18/2006 | Soil Vapor – 8 | AOC9 | Area for soil vapor investigation. | BC |
| 10/18/2006 | Soil Vapor – 9 | AOC9 | Collection of soil vapor sample | BC |
| 10/18/2006 | Soil Vapor – 10 | AOC9 | Collection of soil vapor sample | BC |
| 10/18/2006 | Soil Vapor – 11 | AOC9 | Checking Pressure in Canister | BC |
| 10/18/2006 | Soil Vapor – 12 | AOC9 | Checking Helium in the Bucket | BC |
| 10/19/2006 | Soil Vapor – 13 | AOC9 | Decontamination of Equipment | BC |
| 10/19/2006 | Soil Vapor – 14 | AOC9 | Decontamination of Equipment | BC |
| 10/19/2006 | Soil Vapor – 15 | AOC9 | Soil Vapor Push | BC |
| 10/19/2006 | Soil Vapor – 16 | AOC9 | Soil Vapor Rod and Plug | BC |
| 10/18/2006 | Soil Vapor – 17 | | Griffiss Stone Environmental Push Rig | BC |
| 10/18/2006 | Soil Vapor – 18 | | Griffiss Stone Environmental Push Rig | BC |
| 10/18/2006 | Soil Vapor – 19 | | Adding Helium for Leak test | BC |
| 10/18/2006 | Soil Vapor – 20 | | Checking Helium in Bucket | BC |
| 10/18/2006 | Soil Vapor – 21 | | Soil Vapor Ground Seal to prevent leaks | BC |
| 10/18/2006 | Soil Vapor – 22 | WSA | Water in tubing | BC |
| 12/20/2006 | Soil Vapor – 23 | Apron 2 | SVI Sampling – Building 786 IA1 location | RM |
| 12/20/2006 | Soil Vapor – 24 | Apron 2 | SVI Sampling – Building 786 IA2 (+ dupe) location | RM |

**Former Griffiss AFB Fieldwork Photos**

| Date | Photo/Frame No.: | Site | Description | Photographer |
|---|---|---|---|---|
| 12/20/2006 | Soil Vapor – 25 | Apron 2 | SVI Sampling – Building 786 OA1 location | RM |
| 12/20/2006 | Soil Vapor – 26 | Apron 2 | SVI Sampling – Building 785 IA1 location | RM |
| 12/20/2006 | Soil Vapor – 26 | Apron 2 | SVI Sampling – Building 785 IA2 location | RM |
| 12/20/2006 | Soil Vapor – 28 | 775 | Janitors closet in Building 776 | RM |
| 12/20/2006 | Soil Vapor – 29 | 775 | Storage in Xerox room in Building 776 | RM |
| 12/20/2006 | Soil Vapor – 30 | Apron 2 | SVI Sampling – Building 786 IA1 sample location | RM |
| 12/20/2006 | Soil Vapor – 31 | Apron 2 | SVI Sampling – Building 786 hose entering floor in center of the building | RM |
| 12/20/2006 | Soil Vapor – 32 | Apron 2 | Cracks in Building 786 floor | RM |
| 12/20/2006 | Soil Vapor – 33 | Apron 2 | Repaired cracks in Building 786 floor | RM |
| 12/20/2006 | Soil Vapor – 34 | Apron 2 | Compressed gas cylinder | RM |
| 12/20/2006 | Soil Vapor – 35 | Apron 2 | Inside Building 786, facing N | RM |
| 12/20/2006 | Soil Vapor – 36 | Apron 2 | Inside Building 786, facing S | RM |
| 12/20/2006 | Soil Vapor – 37 | Apron 2 | Inside Building 786, facing W | RM |
| 12/20/2006 | Soil Vapor – 38 | Apron 2 | Steam pipe trench along back of Building 786 | RM |
| 12/20/2006 | Soil Vapor – 39 | Apron 2 | Concrete vault adjacent to steam pipe trench approx 1.5' by 6'; appears to have solid concrete bottom approx 1' deep | RM |
| 12/20/2006 | Soil Vapor – 40 | | steam pipe trench "sump" contains rusty water; unable to open/remove the grate | RM |
| 12/20/2006 | Soil Vapor – 41 | | steam pipe trench "sump" contains rusty water; unable to open/remove the grate | RM |
| 12/20/2006 | Soil Vapor – 42 | | SVI Sampling – Building 774 IA1 location | RM |
| 12/20/2006 | Soil Vapor – 43 | | SVI Sampling – Building 774 IA2 (+dupe) location | RM |
| 12/20/2006 | Soil Vapor – 44 | | Building 774 janitors closet with floor drain and soap | RM |
| 12/20/2006 | Soil Vapor – 45 | | Building 774 janitors closet with misc cleaners | RM |
| 12/20/2006 | Soil Vapor – 46 | | SVI Sampling – WSA-IA1 location | RM |
| 12/20/2006 | Soil Vapor – 47 | | SVI Sampling – WSA-OA1 location | RM |

**Former Griffiss AFB Fieldwork Photos**

| Date | Photo/Frame No.: | Site | Description | Photographer |
|---|---|---|---|---|
| 12/20/2006 | Soil Vapor – 48 | | SVI Sampling – 774-OA1 location (outside facing Building 776) | RM |
| 12/21/2006 | Soil Vapor – 49 | | Front of Building 817 | RM |
| 12/21/2006 | Soil Vapor – 50 | | NW side of Bldg 817 (with electric and AC) | RM |
| 12/21/2006 | Soil Vapor – 51 | | Building 817 Lamotte combination soil test kit | RM |
| 12/21/2006 | Soil Vapor – 52 | | Jim Mays taking ppb readings of soil test kit and groundwater (pH/temp/conductivity) solutions | RM |
| 12/21/2006 | Soil Vapor – 53 | | Building 817 bedrock core samples | RM |
| 12/21/2006 | Soil Vapor – 54 | | Building 817 poly tank storage room at center of building | RM |
| 12/21/2006 | Soil Vapor – 55 | | Building 786, exterior | RM |
| 12/21/2006 | Soil Vapor – 56 | | Building 785 Exterior, front/side | RM |
| 12/21/2006 | Soil Vapor – 57 | | Building 785 concrete sealer drum and used morot oil filter | RM |
| 12/21/2006 | Soil Vapor – 58 | | Building 785 drums (used oil), paint cans, 5 gal bucket of adhesive, sealer, etc | RM |
| 12/21/2006 | Soil Vapor – 59 | | Building 785 main room floor, repaired cracks | RM |
| 12/21/2006 | Soil Vapor – 60 | | Back of Building 785 with shed containing compressor for air injection system currently in operation (FPM operating) | RM |
| 12/21/2006 | Soil Vapor – 61 | | Back of Building 786 | RM |



| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 1 | **Description:** Canisters set at WSA-SSV1, WSA-SSV1/D and WSA-SSV/S |
| **Date/Time:** | 10/24/06 | |
| **Photographer:** | AH | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 2 | **Description:** Canisters set at WSA-SSV1, WSA-SSV1/D and WSA-SSV/S |
| **Date/Time:** | 10/24/06 | |
| **Photographer:** | AH | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 3 | **Description:** Canisters set at B785-SSV1 |
| **Date/Time:** | 10/24/06 | |
| **Photographer:** | AH | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 4 | **Description:** Canisters set at B785-SSV2 |
| **Date/Time:** | 10/24/06 | |
| **Photographer:** | AH | |



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|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 5 | **Description:** Canisters set at B784-SSV1 |
| **Date/Time:** | 10/24/06 | |
| **Photographer:** | AH | |




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|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 6 | **Description:** Canisters set at B784-SSV2 |
| **Date/Time:** | 10/24/06 | |
| **Photographer:** | AH | |



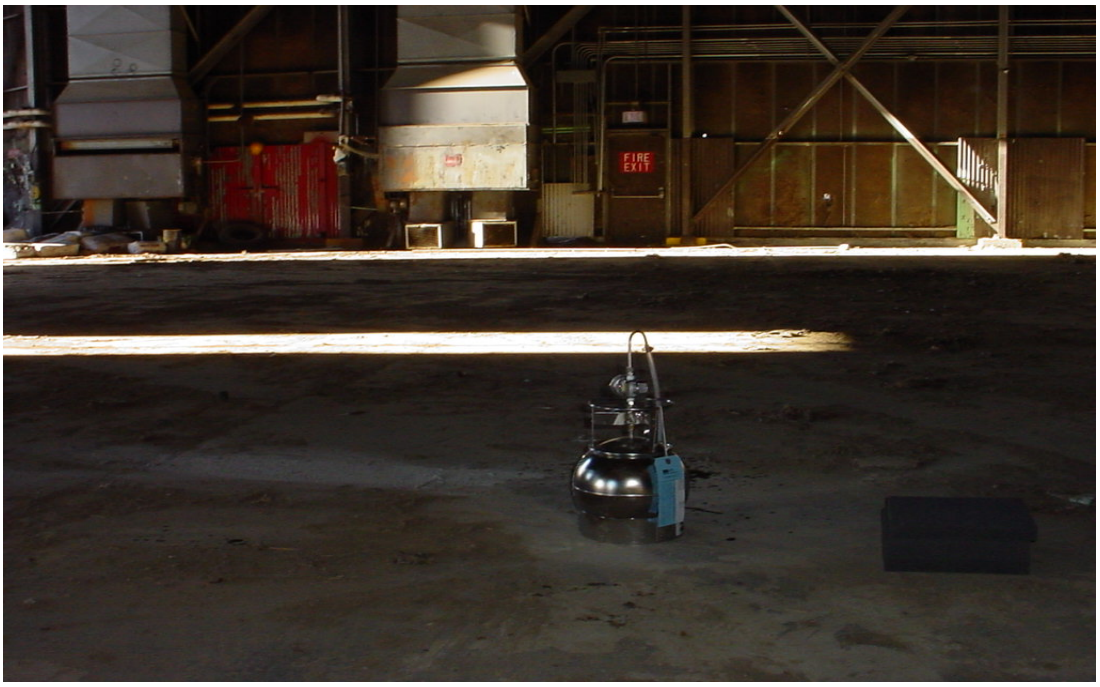
| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 7 | **Description:** Canisters set at B786-SSV1 |
| **Date/Time:** | 10/25/06 | |
| **Photographer:** | AH | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 8 | **Description:** Canisters set at B786-SSV2 |
| **Date/Time:** | 10/25/06 | |
| **Photographer:** | AH | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 9 | **Description:** Canisters set at B783-SSV1 |
| **Date/Time:** | 10/25/06 | |
| **Photographer:** | AH | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 10 | **Description:** Canisters set at B783-SSV2 |
| **Date/Time:** | 10/25/06 | |
| **Photographer:** | AH | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 11 | **Description:** Canisters set at B782-SSV1 |
| **Date/Time:** | 10/25/06 | |
| **Photographer:** | AH | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | SubSlab Vapor - 12 | **Description:** Canisters set at B782-SSV2 |
| **Date/Time:** | 10/25/06 | |
| **Photographer:** | AH | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 1 | **Description:** AOC9 – Attaching tubing to probe |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 2 | **Description:** AOC9 PID Scan |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 3 | **Description:** AOC9 – PID Reading |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 4 | **Description:** AOC9 –Releasing probe |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 5 | **Description:** AOC9 Soil Gas |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 6 | **Description:** AOC9 Soil Gas – 2 |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 7 | **Description:** AOC9 Soil Gas - 3 |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 8 | **Description:** AOC9 area for soil vapor investigation. |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 9 | **Description:** AOC9 Collection of soil vapor sample |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 10 | **Description:** AOC9 Collection of soil vapor sample |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 11 | **Description:** Checking Pressure in Canister |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil V | **Description:** AOC9 – Checking Helium in the Bucket |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 13 | **Description:** AOC9 – Decontamination of Equipment |
| **Date/Time:** | 10/19/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 14 | **Description:** AOC9 – Decontamination of Equipment |
| **Date/Time:** | 10/19/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 15 | **Description:** AOC9 – Soil Vapor Push |
| **Date/Time:** | 10/19/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 16 | **Description:** AOC9 – Soil Vapor Rod and Plug |
| **Date/Time:** | 10/19/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 17 | **Description:** Griffiss Stone Environmental Push Rig |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 18 | **Description:** Griffiss Stone Environmental Push Rig |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 19 | **Description:** Adding Helium for Leak test |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 20 | **Description:** Checking Helium in Bucket |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 21 | **Description:** Soil Vapor Ground Seal to prevent leaks |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 22 | **Description:** WSA – Water in tubing |
| **Date/Time:** | 10/18/06 | |
| **Photographer:** | BC | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 23 | **Description:** SVI Sampling - Building 786 IA1 location |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 24 | **Description:** SVI Sampling - Building 786 IA2 (+ dupe) location. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 25 | **Description:** SVI Sampling - Building 786 OA1 location |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 26 | **Description:** SVI Sampling - Building 785 IA1 location |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 27 | **Description:** SVI Sampling - Building 785 IA2 location |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 28 | **Description:** Janitors closet in Building 776 |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 29 | **Description:** Storage in Xerox room in Building 776 |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 30 | **Description:** SVI Sampling - Building 786 IA1 sample location |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 31 | **Description:** SVI Sampling - Building 786 hose entering floor in center of the building. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 32 | **Description:** Cracks in Building 786 floor. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 33 | **Description:** Repaired cracks in Building 786 floor. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 34 | **Description:** Compressed gas cylinder. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 35 | **Description:** Inside Building 786, facing N. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 36 | **Description:** Inside Building 786, facing S. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 37 | **Description:** Inside Building 786, facing W. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 38 | **Description:** Steam pipe trench along back of Building 786. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 39 | **Description:** Concrete vault adjacent to steam pipe trench approx 1.5' by 6'; appears to have solid concrete bottom approx 1' deep. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 40 | **Description:** Steam pipe trench "sump" contains rusty water; unable to open/remove the grate. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 41 | **Description:** Steam pipe trench "sump" contains rusty water; unable to open/remove the grate. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 42 | **Description:** SVI Sampling - Building 774 IA1 location. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 43 | **Description:** SVI Sampling - Building 774 IA2 (+dupe) location. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 44 | **Description:** Building 774 janitors closet with floor drain and soap. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 45 | **Description:** Building 774 janitors closet with miscellaneous cleaners. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 46 | **Description:** SVI Sampling - WSA-IA1 location. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 47 | **Description:** SVI Sampling - WSA-OA1 location. |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 48 | **Description:** SVI Sampling - 774-OA1 location (outside facing Building 776). |
| **Date/Time:** | 12/20/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 49 | **Description:** Front of Building 817. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 50 | **Description:** NW side of Bldg 817 (with electric and AC). |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 51 | **Description:** Building 817 Lamotte combination soil test kit. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 52 | **Description:** Jim Mays taking ppb readings of soil test kit and groundwater (pH/temp/conductivity) solutions. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 53 | **Description:** Building 817 bedrock core samples. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 54 | **Description:** Building 817 poly tank storage room at center of building. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 55 | **Description:** Building 786, exterior. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 56 | **Description:** Building 785 Exterior, front/side. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 57 | **Description:** Building 785 concrete sealer drum and used motor oil filter. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |




| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 58 | **Description:** Building 785 drums (used oil), paint cans, 5 gal bucket of adhesive, sealer, etc. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 59 | **Description:** Building 785 main room floor, repaired cracks. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 60 | **Description:** Back of Building 785 with shed containing compressor for air injection system currently in operation (FPM operating). |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |



| | | |
|---|---|---|
| **Photo/Frame No.:** | Soil Vapor - 61 | **Description:** Back of Building 786. |
| **Date/Time:** | 12/21/06 | |
| **Photographer:** | RM | |

# B Field Adjustment Forms

**Field Adjustment Form No.** SVI-1
**Former Griffiss AFB**

| | |
|---|---|
| To: Mr. Douglas M. Pocze<br>USEPA - Region 2<br>Federal Facilities Section<br>290 Broadway<br>New York, New York 10007<br>Fax: (212) 637-3256<br>Office: (212 637-4432 | Ms. Heather Bishop<br>NYSDEC Division of Environmental Remediation<br>625 Broadway, 11th floor<br>Albany, New York 12233-7015<br>Fax: (518) 402-9022<br>Office: (518) 402-9692 |
| From: Mr. Michael McDermott<br>AFBCA<br>153 Brooks Road<br>Rome, NY 13441-4105<br>Fax: (315) 330-4062<br>Office: (315) 330-2275 | Date: 10-23-06<br>Time: 1500 |
| **Site:** Apron 2 + Building 817 | **Work Plan Section:** App A **Page:** — |

**Need for Field Adjustment**

- On 10/19/06 EEEPC attempted to collect soil vapor samples @ Building 817 and Apron 2 from the 5'-8' depth interval as described in the work plan. However, @ B817 the water table was less than 3 feet below ground surface (BGS) and at Apron 2 the water table was at or very near ground surface, therefore, NO SV samples were collected at these sites.
- At AOC9 one SV sample was collected from 4 feet BGS (above the planned 5'-8' interval), because the water table was approximately 4.5' BGS at that location. Additional care was taken to seal the sampling rods/tubing at the ground surface by excavating a small cavity (≈ 4" deep) around the rods and filling it with hydrated bentonite to prevent infiltration of ambient air. Collecting this sample (AOC9-SV06) from within one foot of the water table is in accordance with NYSDOH guidance.
- * Subslab SV sampling will be conducted at each of the sites as planned between 10/23/06 and 10/27/06.

Robert A Meyers

| Prepared by: | Organization | Date: |
|---|---|---|
| R Meyers<br>S. Fiorentino | EEEPC | 10-23-06 |
| **Approved by:** | **Org:** | **Date:** |
| | USACE | |

**Figure 3-1 Field Adjustment Form**

## Field Adjustment Form No. 2
## Former Griffiss AFB

| | | |
|---|---|---|
| To: | Mr. Douglas M. Pocze<br>USEPA - Region 2<br>Federal Facilities Section<br>290 Broadway<br>New York, New York 10007<br>Fax: (212) 637-3256<br>Office: (212 637-4432 | Ms. Heather Bishop<br>NYSDEC Division of Environmental Remediation<br>625 Broadway, 11th floor<br>Albany, New York 12233-7015<br>Fax: (518) 402-9022<br>Office: (518) 402-9692 |
| From: | Mr. Michael McDermott<br>AFBCA<br>153 Brooks Road<br>Rome, NY 13441-4105<br>Fax: (315) 330-4062<br>Office: (315) 330-2275 | Date: 12-18-06<br>Time: 11:00 AM |
| **Site: B775, Apron 2 and WSA/B817** | | **Work Plan Section: 3** **Page: 3-5** |

### Need for Field Adjustment

**Based on review of the subslab vapor results obtained during the initial phase of the SVI study (performed between 10/24 and 10/26/06), indoor air and outdoor/ambient air samples will be collected from Buildings 774, 776, 817, 785 and 786. Subslab analytical results were screened against USEPA risk based criteria as summarized on the attached table. A conservative attenuation factor of 10X (subslab to indoor air) was used in the screening process. Indoor and outdoor/ambient air samples will be collected from each of the buildings in accordance with the existing work plan; however, the list of analytes will be tailored to specifically analyze for the compounds which exceeded the screening levels.**

**Attachment – Table**

| Prepared by: | Organization | Date: |
|---|---|---|
| Robert Meyers | EEEPC | 12-18-06 |
| Approved by: | Org: | Date: |
| | USACE | 12-19-06 |

# C Indoor Air Quality Questionnaire and Building Inventory Forms

OSR – 3
(EEEPC Revision 2)

CONFIDENTIAL
B774

# 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 Bob Meyers Date/Time Prepared 12-20-06/1500

Preparer's Affiliation E&E Inc. Phone No. 716-684-8060

Purpose of Investigation Check Indoor Air Quality

Property Address: Building 774 (428 Phoenix Dr) Rome NY 13441. Former GAFB

Location/Sample ID: B774, 774-IA1, 774-IA2 & 774-IA2/D

**1. OCCUPANT: Interviewed: (Y) / N**

Last Name: Perella First Name: Dave

Address: 428 Phoenix Drive

County: Oneida

Home Phone: — Office Phone: 315-838-2112

Typical Number of Occupants/persons at this location ~45

Approximate Age of Occupants 35-45

Typical hours of occupancy: From 8 To 5

**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 | Municipal / Government |

Other (Describe): _____

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

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

Business Type(s) Security

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

**Other Building Characteristics:** Renovated 2000

Number of floors 1 Approx. building age 145yrs

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

**4. AIRFLOW**
**Qualitatively describe:**

Airflow between floors NA

Airflow near source Slab on grade, 20% turnover constanty 36 air handlers

Outdoor air infiltration 20% through Air handlers, New windows & doors

Infiltration into air ducts NA, ducts all in ceiling Go to air handlers and to Cooling towers.

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

| | | | | | |
|---|---|---|---|---|---|
| a. Above grade construction: | (wood frame) | concrete | stone | (brick) | other _____ |
| b. Basement type: 1st Floor | full | crawlspace | (slab) | other _____ | |
| c. Basement floor: 1st Floor | (concrete) | dirt | stone | other _____ | |
| d. Basement floor: 1st Floor | uncovered | covered | covered with Carpet | | |
| e. Concrete floor: | unsealed | sealed | sealed with Carpet | | |
| f. Foundation walls: | poured | block | stone | other _____ | |
| g. Foundation walls: | unsealed | sealed | sealed with _____ | | |
| h. The basement is: NA | wet | damp | dry | moldy | |
| i. The basement is: NA | finished | unfinished | partially finished | | |
| j. Sump present? | Y / (N) | | | | |
| k. Water in sump? | Y / N / (NA) | | | | |
| l. Sump covered/sealed? | Y / N / (NA) | | | | |
| m. Floor drains present? | (Y) N / NA Bathrooms & Janitors closet, Boiler Room | | | | |
| n. Perimeter trench drains present? | Y / (N) / NA | | | | |
| o. Indoor cisterns/drywell? | Y / (N) NA | | | | |
| p. Laundry chute to 1st or 2nd Floors? | Y / (N) NA | | | | |

**Basement/Lowest level depth below grade:** 0 (feet)

**Identify and describe potential soil vapor entry points and approximate size (e.g., floor cracks, utility ports, floor drains, wall cracks, weeps, or indoor wells)**

4- Floor drains.
* Older drains/cracks repaired & Filled during total renovations in 2000.

**Other Comments:** _____

## 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 | * Cooling Tower "Heat Exchanger" |
| Space Heaters | Stream radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other Steam "Baseboard" |

Approximate age of heating system(s): 5 yrs.

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

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

**Domestic hot water tank fueled by:** Electric

**Fuel oil storage location/condition/size, if applicable:** None

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

**Storage wood or coal:** NA Basement Outdoors Main Floor Other _____

**Fireplace(s) located in:** NA Basement Main Floor Other _____

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

**Dehumidification:** Stand alone unit Located on central air system

**Are there air distribution ducts present?** (Y) N Between drop ceiling & Roof

**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.**

All New (2000) ductwork to each office.

**7. OCCUPANCY Is basement/lowest level occupied?** yes Full-time Occasionally Seldom Almost Never

← 8 hrs./day

| Level | General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage) |
|---|---|
| Basement | NA |
| 1st Floor | offices |
| 2nd Floor | NA |
| 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, boat) 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?** NA 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? Daily office/BR Cleaning

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

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? in Restrooms daily

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

n. **Is there a bathroom exhaust fan?** ☐ Basement (Y) / N If yes, where vented? Outside
☒ First floor

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

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

q. **Basement windows?** Type: Casement Awning Glass block Condition: _____

r. **Are there exterior doors in the basement** (e.g. "Bilco") Y / N / (NA)

**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? _____

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) NOT USED

## 11. OTHER ENVIRONMENTAL HAZARDS OBSERVED

Note factors that may impact vapor mitigation system installation or other construction activities:

**A. Asbestos:** Yes (No) Suspected

1. Location & Estimated Quantity: _____

_____

2. General Condition: Good Fair Poor

3. Other Comments: _____

_____

**B: Lead Paint:** Yes (No) Suspected

1. Location & Estimated Quantity: _____

_____

2. General Condition: Good Fair Poor

3. Other Comments: _____

_____

12. 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.** Include compass orientation or reference to street or front of house.

**Basement:**

None

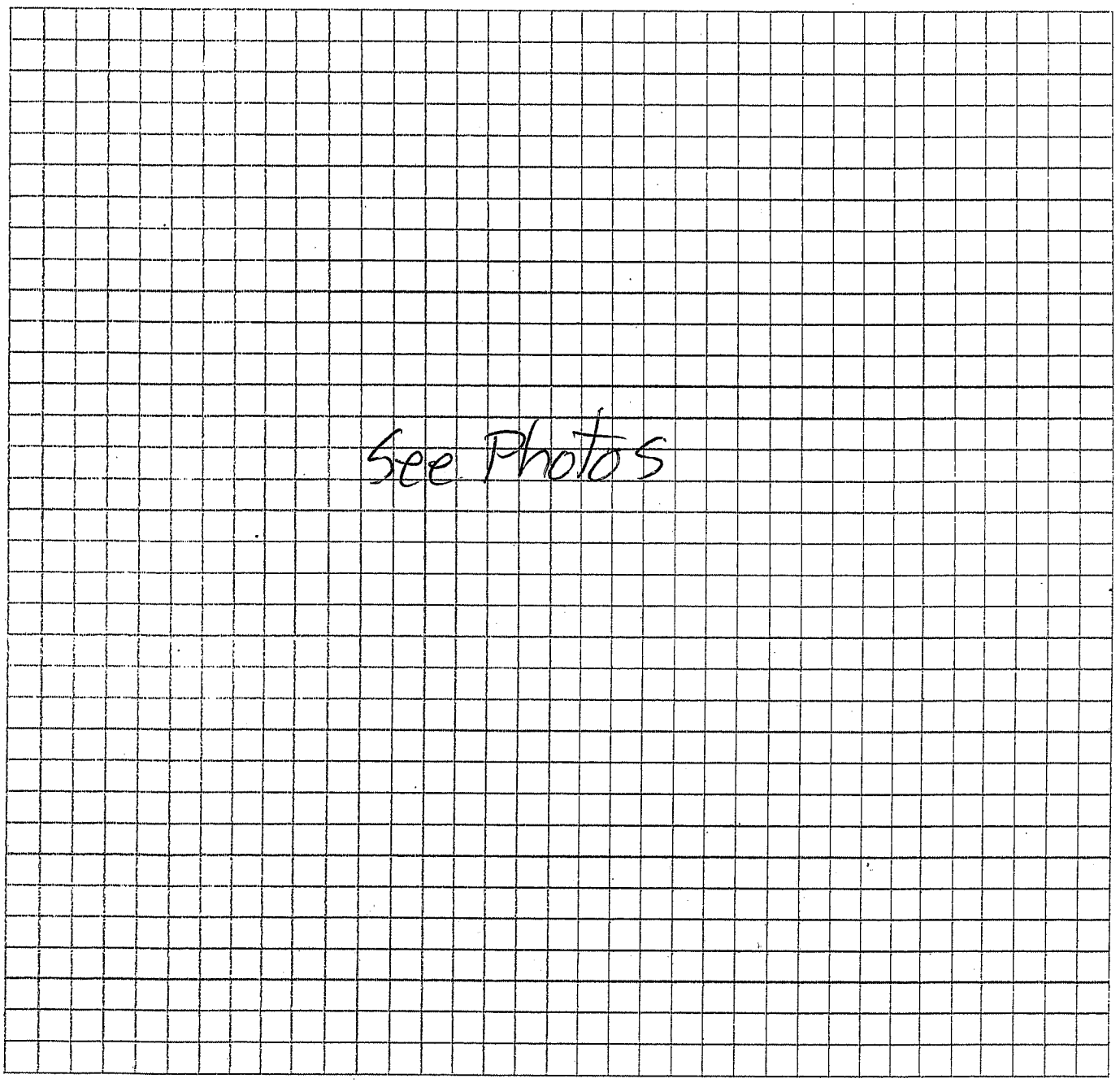
**First Floor:**

See Attached Figure (Last Page)

## 13. 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.**



## 14. PRODUCT INVENTORY FORM



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

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

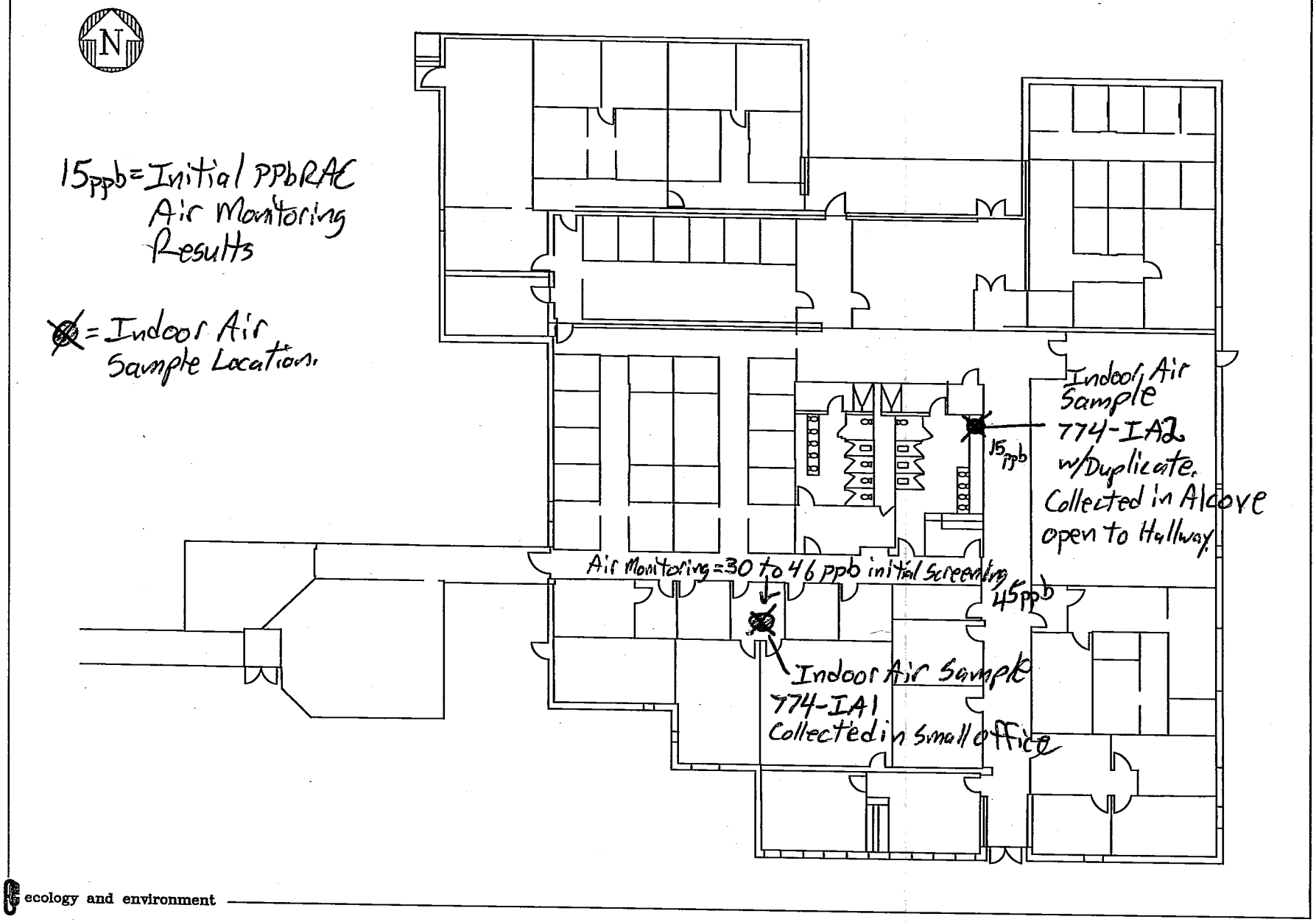
*Note ALL items are currently in use

| Location | Product Description | Size (units) | Condition * | Chemical Ingredients | Field Instrument Reading (units) | Photo Y / N ** |
|---|---|---|---|---|---|---|
| Janitor Closet | Soft Soap - Hand Soap | 1 Gal | ½ Full | Triclosan-15% | 0 | Y |
| " | Dial Handsoap-liquid | 1 Gal | ½ Full | " | 0 | Y |
| " | Bracket - Duster Plus Dusting & Cleaning Spray | 17 oz Aerosol | ⅔ Full | Light Naphthenic distillate, isoparaffinic Hydrocarbon | 25.6 ppm | N |
| | | | | Solvent, isoparafinic (64742-48-9) | | |
| " | Softscrub w/bleach | 2 1 3/4 oz (2) | 1 = UO 1 = U | | 0 | |
| " | 5 Virex 256 one step Germicidal Cleaner and deodorant | ½ gal | U | See MSDS | 0 | |
| " | General Purpose Cleaner (Johnson) | 1 QT ⅓ Full | U | | 0 | |
| " | Endust - Dusting spray | 15.5 oz Aerosol | U | Naphtha, light Paraffinic Propane, 2-Methyl, Propane | 0 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

* 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.

F:\Griffiss\Parsons Figures 6-2-06\Revised 6-7-06\SVI 8.5 x 11 Figure 1-11-07\SVI_Figure-1-1.dwg




ecology and environment

BUILDING 774 FLOOR PLAN
FORMER GRIFFISS AFB

B774

Buckeye International, Inc.
2700 Wagner Place
Maryland Heights, MO 63043
314/291-1900

N.F.P.A.
4= Extreme
3= High
2= Moderate
1= Slight
0= Insignificant

| | |
|---|---|
| HEALTH | 0 |
| FIRE | 0 |
| REACTIVITY | 0 |

# Material Safety Data

24 Hour Emergency Telephone Number: 1-800-228-5635 Extension: 076

## SECTION I - IDENTIFICATION

| | |
|---|---|
| PRODUCT NAME: BUCKEYE STAR SPRAY | DATE PREPARED: January 1, 1993 |
| CHEMICAL FAMILY: Ready To Use Glass Cleaner, Water Based | CODE: 5403 |
| PROPER D.O.T. SHIPPING NAME: Compound, Cleaning, Liquid | |
| D.O.T. HAZARD CLASSIFICATION: None | |

## SECTION II - INGREDIENTS AND IDENTITY INFORMATION

| % BY WEIGHT | MATERIAL | PEL | T.L.V. | C.A.S. NO. |
|---|---|---|---|---|
| 3.0 | Propylene Glycol Methyl Ether | NE | 100 ppm | 107-98-2 |
| >96.0 | Soft Water | NE | NE | NE |
| <1.0 | Perfume Coloring and Additives less than 1% | NA | NA | NA |

ITEMS MARKED * ARE SARA TITLE III SEC 313 REPORTABLES

## SECTION III - PHYSICAL DATA

| | | | |
|---|---|---|---|
| BOILING POINT °F | 212°F | pH (CONC.) | 8.8±0.2 |
| SOLUBILITY IN WATER | Infinite | pH (USE DILUTION) RTU | 8.8±0.2 |
| % VOLATILE BY WEIGHT | 99.0 | EVAPORATION RATE (Water=1) | 1.0 |
| SPECIFIC GRAVITY | 0.99 | LIQUID [X] POWDER [ ] PASTE [ ] AEROSOL [ ] | |
| APPEARANCE AND ODOR | Floral, Clear Light Blue/Green Solution | | |

## SECTION IV - FIRE AND EXPLOSION DATA

| | | | |
|---|---|---|---|
| FLASH POINT (TEST METHOD) | Tag Closed Cup: None! | FLAMMABLE LIMITS | |
| | | UPPER | LOWER |
| EXTINGUISHING MEDIA NA [ ] $CO_2$ [ ] FOAM [ ] DRY CHEMICAL [ ] WATER [ ] OTHER | | N/A | N/A |
| SPECIAL FIRE FIGHTING PROCEDURES | None | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | Products of combustion. Oxides of carbon. | | |

## SECTION V - REACTIVITY DATA

| | | | | |
|---|---|---|---|---|
| STABILITY | STABLE | X | CONDITIONS TO AVOID | None Known |
| | UNSTABLE | | | |
| INCOMPATIBILITY | Do not mix with chlorine bleach. | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS | None Known | | | |
| HAZARDOUS POLYMERIZATION | WILL OCCUR | | WILL NOT OCCUR | X |

## SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? No SKIN? Yes INGESTION? No

HEALTH HAZARDS (*Acute and Chronic*)

May cause eye and skin irritation.

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

SIGNS AND SYMPTOMS OF EXPOSURE

For Skin: Redness of skin or a warming sensation. For Eyes: Redness or burning sensation.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

None Known

EMERGENCY AND FIRST AID PROCEDURES For Eyes: Flush with cool water for 15 min. If irritation persists, see physician. For Skin: Flush with water for 15 min. If irritation persists, see physician. For Ingestion: Give two large glasses of water. DO NOT induce vomiting. Call physician. Never give anything by mouth to an unconscious person.

## SECTION VII - SPILL OR LEAK PROCEDURES

SPILL RESPONSE

Pick up with mop, wet/dry vac or absorbent material. Rinse area with clear water and allow floor to dry before allowing traffic.

WASTE DISPOSAL METHOD Dilute with water and flush to sanitary sewer, or send to sanitary landfill, following local, state and federal laws.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

EYE PROTECTION When eye contact may occur, wear safety glasses or chemical splash goggles.

VENTILATION Normal room ventilation.

SKIN PROTECTION Rubber gloves or other impervious gloves. *

RESPIRATORY PROTECTION None Required.

OTHER PROTECTION None Required. Follow good personal hygiene practices.

* Needed for clean up of spill or for possible prolonged skin contact.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS IN HANDLING AND STORAGE KEEP OUT OF REACH OF CHILDREN!
Keep container closed when not in use.
Store at room temperature.

OTHER PRECAUTIONS This product is not regulated under CERCLA or RCRA.
Not reportable under SARA Title III Section 311/312.

NE=Not Established NA=Not Applicable

PREPARED BY: Mark Gindling, Director of Research

Disclaimer of Liability
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# Material Safety Data Sheet

| WHMIS (Pictograms) | WHMIS (Classification) | HCS |
|---|---|---|
|  | Not controlled under WHMIS (Canada). | HCS Class: Irritating substance. |

## Section 1. Chemical Product and Company Identification

| | |
|---|---|
| Product Name/ Trade name | Push |
| Synonym | Liquid Bacteria / Digester/Spotter |
| Chemical Family | Not available. |
| Chemical Formula | Not applicable. |
| Manufacturer | Betco Corporation<br>1001 Brown Avenue<br>Toledo, Ohio 43607<br>(419) 241-2156 |
| TSCA | TSCA Inventory: All components listed or are exempt from listing. |
| DSL | DSL : All components listed unless noted elsewhere on this MSDS |

| | |
|---|---|
| Code | 133 |
| CAS # | Not applicable. |
| Validation Date | 2/8/2001 |
| Print Date | 2/12/2001 |
| In Case of Emergency | Chemtrec (800) 424-9300 |

Protective Clothing



## Section 2. Composition and Information on Ingredients

| Name | CAS # | % by Weight | Exposure Limits | $LC_{50}/LD_{50}$ |
|---|---|---|---|---|
| 1) Water | 7732-18-5 | 0-100 | Not available. | Not available. |
| 2) Live Bacteria Dispersion | N/A | 5-10 | Not available. | Not available. |
| 3) Isopropyl Alcohol | 67-63-0 | 0-5 | TWA: 400 (ppm) TWA: 400 (ppm) from OSHA (PEL) [United States] STEL: 500 (ppm) | Not available. |
| 4) Tetrasodium salt of ethylendiaminetetraacetic acid | 64-02-8 | 0-5 | Not available. | ORAL (LD50): Acute: 3030 mg/kg [Rat]. |
| 5) Nonionic Surfactant | 9016-45-9 | 0-5 | Not available. | Not available. |
| 6) Acrylic Emulsion | 25085-34-1 | 0-5 | Not available. | Not available. |
| 7) Propylene Glycol | 57-55-6 | 0-5 | Not available. | ORAL (LD50): Acute: 5000 mg/kg [Rat]. |
| 8) Nonionic Surfactant | 61788-90-7 | 0-5 | Not available. | ORAL (LD50): Acute: 4610 mg/kg [Rat]. |
| 9) Perfume Oil | 8007-02-1 | <1 | Not available. | Not available. |

## Section 3. Hazards Identification

| | |
|---|---|
| Potential Acute Health Effects | This product is an eye irritant. EYE CONTACT MAY RESULT IN INFECTION. |
| Potential Chronic Health Effects | There is no known effect from chronic exposure to this product. |
| Carcinogenic Effects | Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. |

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| Section 4. First Aid Measures | |
|---|---|
| Eye Contact | May Infect Eyes.Check for and remove any contact lenses. DO NOT use an eye ointment. Seek medical attention. |
| Skin Contact | Avoid contact with skin and eyes. Irritant. May infect open wounds Rinse with plenty of running water. Seek medical attention. |
| Inhalation | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. |
| Ingestion | May be irritating to gastrointestinal system, mouth, throat, and esophagus. Vomiting and diarrhea expected with large doses. Have conscious person drink several glasses of water or milk. Seek medical attention. |

| Section 5. Fire Fighting Measures | |
|---|---|
| Products of Combustion | Not available. |
| Fire Fighting Media and Instructions | DO NOT use water jet. Use DRY chemicals, CO2, water spray or foam. |
| Special Remarks on Fire Hazards | No additional remark. |
| Special Remarks on Explosion Hazards | No additional remark. |

| Section 6. Accidental Release Measures | |
|---|---|
| Small Spill and Leak | Absorb with an inert material and put the spilled material in an appropriate waste disposal. |
| Large Spill and Leak | Absorb with an inert material and put the spilled material in an appropriate waste disposal. |
| Personal Protection in Case of a Large Spill | Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. |

| Section 7. Handling and Storage | |
|---|---|
| Precautions | DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. |
| Incompatibility | Do not use in the presence of disinfectants or bleach. |
| Storage | Keep out of reach of children. Keep container tightly closed. Not for use or storage in or around the home. |

| Section 8. Exposure Controls/Personal Protection | |
|---|---|
| Engineering Controls | Good general ventilation should be sufficient to control airborne levels. |
| Personal Protection | |
| *Eyes* | Splash goggles. |
| *Body* | Long Pants and Long Sleeves to avoid skin cotact. |
| *Respiratory* | Wear appropriate respirator when ventilation is inadequate. |
| *Hands* | Gloves. |
| Protective Clothing (Pictograms) |  |

| | |
|---|---|
| Exposure Limits | Isopropyl Alcohol<br>TWA: 400 (ppm)<br>TWA: 400 (ppm) from OSHA (PEL)<br>STEL: 500 (ppm)<br><br>Consult local authorities for acceptable exposure limits. |

## Section 9. Physical and Chemical Properties

| | |
|---|---|
| Physical State and Appearance | Liquid. |
| Molecular Weight | Not applicable. |
| pH | 7 to 8 [Basic.] |

| | |
|---|---|
| Odor | Pleasant. |
| Taste | Not available. |
| Color | White. |

| | |
|---|---|
| Boiling/Condensation Point | 100°C (212°F) |
| Melting/Freezing Point | Not available. |
| Critical Temperature | Not available. |
| Instability Temperature | Not available. |
| Specific Gravity | 1 (Water = 1) |
| Vapor Pressure | 20 mm of Hg (@ 20°C) |
| Vapor Density | >1 (Air = 1) |
| Volatility | Not available. |
| VOC | 2.5% By Weight |
| Evaporation Rate | <1 compared to Water |
| Odor Threshold | Not available. |
| $LogK_{ow}$ | Not available. |
| Ionicity (in Water) | Not available. |
| Dispersion Properties | Not available. |
| Solubility | Not available. |
| The Product is: | Non-flammable. |
| Auto-ignition Temperature | Not available. |
| Flash Points | CLOSED CUP: >98.889°C (210°F). |
| Flammable Limits | Not available. |
| Fire Hazards in Presence of Various Substances | No specific information is available in our database regarding the flammability of this product in presence of various materials. |
| Explosion Hazards in Presence of Various Substances | Drums Heated By Fire Can explode |

## Section 10. Stability and Reactivity Data

| | |
|---|---|
| Stability | The product is stable. |
| Incompatibility with Various Substances | Do not use in the presence of disinfectants or bleach. |
| Hazardous Decomposition Products | Not available. |

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## Section 11. Toxicological Information

| | |
|---|---|
| **Routes of Entry** | Absorbed through skin. Eye contact. Inhalation. |
| **Toxicity to Animals** | Acute oral toxicity (LD50): 4610 mg/kg [Rat]. (Nonionic Surfactant). |
| **Acute Effects on Humans** | |
| *Eyes* | Hazardous in case of eye contact (irritant). This product may infect eyes. |
| *Skin* | Slightly hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May infect open wounds. |
| *Inhalation* | Hazardous in case of inhalation. |
| *Ingestion* | Hazardous in case of ingestion. Irritating to mouth, throat and stomach. |
| **Chronic Effects on Humans** | There is no known effect from chronic exposure to this product. |
| **Special Remarks on Toxicity to Animals** | No additional remark. |
| **Special Remarks on Chronic Effects on Humans** | No additional remark. |

## Section 12. Ecological Information

| | |
|---|---|
| **Ecotoxicity** | Not available. |
| **BOD5 and COD** | Will not occur |
| **Products of Biodegradation** | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| **Toxicity of the Products of Biodegradation** | Not available. |
| **Special Remarks on the Products of Biodegradation** | No additional remark. |

## Section 13. Disposal Considerations

| | |
|---|---|
| **Waste Information** | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
| **Waste Stream** | Not available. |

## Section 14. Transport Information

**DOT (U.S.A) (Pictograms)**



**TDG Classification** Not controlled under TDG (Canada).



| | |
|---|---|
| **PIN UN, Proper Shipping Name, PG** | Not applicable. |
| **Maritime Transportation** | Not available. |
| **Special Provisions for Transport** | Not applicable. |

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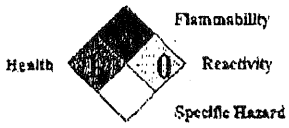
## Section 15. Other Regulatory Information and Pictograms

| | | |
|---|---|---|
| **WHMIS (Classification)** | Not controlled under WHMIS (Canada). |  |
| **Regulatory Lists** | No products were found. | |
| **Other Regulations** | The following ingredients are NOT listed on he Canadian Domestic Substances List (DSL): Live Bacteria Dispersion | |
| **Other Classifications** | **HCS (U.S.A.)** | HCS Class: Irritating substance. |
| | **USA Regulatory Lists** | No components listed on California Prop 65<br><br>SARA 311/312: Isopropyl Alcohol; Bacteria Dispersion<br>SARA 313: No components found |
| | **DSD (EEC)** | This product is not classified according to the EU regulations. |
| | **International Regulations Lists** | No products were found. |

**Hazardous Material Information System (U.S.A.)**

| | |
|---|---|
| Health | 1 |
| Flammability | 0 |
| Reactivity | 0 |
| Personal Protection | B |

**National Fire Protection Association (U.S.A.)**




## Section 16. Other Information

**Validated by CRushton on 2/8/2001.**

**Verified by CRushton.**

**Printed 2/12/2001.**

**Information Contact** Betco Corporation
1001 Brown Avenue
Toledo, Ohio 43607

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*
*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*




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MATERIAL SAFETY DATA SHEET



# VIREX* II 256

MSDS # 114331001

**Date Issued: 24Jun1999**

**Supersedes: 01May1996**

US MANUFACTURER:
S.C. Johnson Commercial Markets, Inc.
S.C. Johnson Professional
8310 16th Street
Sturtevant, Wisconsin 53177-0902
Phone: (800) 725-6737
MSDS Internet Address:
www.scjprofessional.com
Emergency Phone: (800) 851-7145

CANADIAN MANUFACTURER:
S.C. Johnson Professional, Inc.
Phone: (519) 756-7900
1 Webster Street, Suite 100
Brantford, Ontario N3T 5R1
Transportation Emergency:
CANUTEC (collect) (613) 996-6666
Emergency Phone: (800) 851-7145

| HAZARD RATING | HMIS | HAZARD | NFPA |
|---|---|---|---|
| 4-Very High | 3 | Health | 3 |
| 3-High | 0 | Flammability | 0 |
| 2-Moderate | 0 | Reactivity | 0 |
| 1-Slight | | Special | |
| 0-Insignificant | | | |

DISTRIBUTED IN CANADA BY:
S.C. Johnson Professional, Inc.
Phone: (519) 758-6611
1 Webster Street, Suite 100
Brantford, Ontario N3T 5R1

## SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME..... VIREX* II 256
REASON FOR CHANGE..... Section 2. Section 3. Section 4. Section 6. Section 7. Section 8. Section 13. Section 14. Section 16.
PRODUCT USE..... Industrial/Institutional: Disinfectants.

## SECTION 2 - INGREDIENT INFORMATION

| INGREDIENT | WEIGHT% | EXPOSURE LIMIT/TOXICITY |
|---|---|---|
| n-Alkyl Dimethyl Benzyl Ammonium Chloride..... (CAS# 68391-01-5) | 8.190 | NOT ESTABLISHED LD50: 500 mg/kg (oral-male rat) ; 2,000 mg/kg (dermal-rabbit) |
| Didecyl Dimethyl Ammonium Chloride..... (CAS# 7173-51-5) | 8.704 | NOT ESTABLISHED |

## SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11)

ROUTE(S) OF ENTRY..... Eye contact. Skin contact.
EFFECTS OF ACUTE EXPOSURE:
EYE..... Corrosive and may cause permanent damage including blindness.
SKIN..... Corrosive and may cause permanent damage.
INHALATION..... May cause irritation or corrosive effects to nose, throat and respiratory tract.
INGESTION..... Corrosive and may cause permanent damage to mouth, throat and stomach.
MEDICAL CONDITIONS..... GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

## SECTION 4 - FIRST AID MEASURES

EYE CONTACT..... Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately.
SKIN CONTACT..... Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately. Remove contaminated clothing within a reasonable time.
INHALATION..... Remove to fresh air. If breathing is affected, get medical attention.
INGESTION..... Do not induce vomiting! Immediately drink 1-2 glasses of water or milk. Do not administer anything by mouth to an unconscious person. Get medical attention immediately.

## SECTION 5 - FIRE AND EXPLOSION INFORMATION

FLASH POINT..... None.
FLAMMABLE LIMITS..... Not applicable.
AUTOIGNITION TEMPERATURE..... Not applicable.
EXTINGUISHING MEDIA.... Foam. CO2. Dry chemical. Water fog.
SPECIAL FIREFIGHTING PROCEDURES... Normal fire fighting procedure may be used.
UNUSUAL FIRE AND EXPLOSION HAZARDS..... Container may melt and leak in heat of fire.

## SECTION 6 - PREVENTIVE RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED... Wear/use appropriate protective equipment. Absorb with fuller's earth or other inert materials. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. Do not let spilled or leaking material enter watercourse. May be toxic to aquatic life.

## SECTION 7 - HANDLING AND STORAGE

PRECAUTIONARY INFORMATION..... DANGER: CORROSIVE: CAUSES EYE AND SKIN BURNS. Avoid contact with skin, eyes and clothing. HARMFUL OR FATAL IF SWALLOWED. Do not taste or swallow. Avoid breathing spray mist or vapors. KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.
OTHER HANDLING AND STORAGE CONDITIONS..... Wash thoroughly after handling. Thoroughly clean footwear and clothing before reuse. Keep container closed. Store in a cool, dry place with adequate ventilation. Keep from freezing. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue.

## SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION. If mists/vapors are not adequately controlled by ventilation, use appropriate respiratory protection to prevent overexposure.
VENTILATION..... General room ventilation is normally adequate. Substantial amounts of mists/vapors can be controlled with local exhaust ventilation or respiratory protection.
PROTECTIVE GLOVES..... Long rubber gloves.

MATERIAL SAFETY DATA SHEET

MSDS # 114331001

# VIREX* II 256

Date Issued: 24Jun1999 Supersedes: 01May1996

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| COLOR | Dark Blue. |
| PRODUCT STATE | Liquid. |
| ODOR | Mint. |
| pH | 10.0-10.5 |
| ODOR THRESHOLD | Not available. |
| SOLUBILITY IN WATER | Complete |
| SPECIFIC GRAVITY (H2O=1) | 1.0 |
| VAPOR DENSITY (AIR=1) | Not available. |
| EVAPORATION RATE (BUTYL ACETATE=1) | Not applicable. |
| VAPOR PRESSURE (mm HG) | Not available. |
| BOILING POINT | > 200°F (> 93°C) |
| FREEZING POINT | < 32°F (< 0°C) |
| COEFFICIENT OF WATER/OIL | Not available. |
| PERCENT VOLATILE BY VOLUME (%) | Not available. |
| VOLATILE ORGANIC COMPOUND (VOC) | Ethanol. |
| THEORETICAL VOC (LB/GAL) | Not available. |

## SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|---|
| STABILITY | Stable. |
| STABILITY - CONDITIONS TO AVOID | None known. |
| INCOMPATIBILITY | Strong acids (eg., muriatic acid). |
| HAZARDOUS DECOMPOSITION PRODUCTS | When exposed to fire: Produces normal products of combustion. |
| HAZARDOUS POLYMERIZATION | Will not occur. |
| HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID | None known. |

## SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3)

| | |
|---|---|
| LD50 (ACUTE ORAL TOX) | Estimated to be between 1000 and 2500 mg/kg (rats). |
| LD50 (ACUTE DERMAL TOX) | Between 2,000-20,000 mg/kg (rabbit). |
| LC50 (ACUTE INHALATION TOX) | 0.48 mg/L |
| EFFECTS OF CHRONIC EXPOSURE | None known. |
| SENSITIZATION | None known. |
| CARCINOGENICITY | None known. |
| REPRODUCTIVE TOXICITY | None known. |
| TERATOGENICITY | None known. |
| MUTAGENICITY | None known. |

## SECTION 12 - ECOLOGICAL INFORMATION

| | |
|---|---|
| ENVIRONMENTAL DATA | Not available. |

## SECTION 13 - DISPOSAL CONSIDERATIONS

| | |
|---|---|
| WASTE DISPOSAL INFORMATION | PESTICIDAL WASTE - Observe all applicable Federal/ Provincial/ State regulations and Local/ Municipal ordinances regarding disposal of pesticide wastes. |

## SECTION 14 - TRANSPORTATION INFORMATION

| | |
|---|---|
| US DOT INFORMATION | Corrosive liquids, Basic, Inorganic, N.O.S, ( Quaternary Ammonium Compounds, Tetrasodium Salt of EDTA ), 8, UN 3266, PG III, Ltd. Qty. |
| CANADIAN SHIPPING NAME | Not applicable. |
| TDG CLASSIFICATION | Not applicable. |
| PIN/NIP | Not applicable. |
| PACKING GROUP | Not applicable. |
| EXEMPTION NAME | Not applicable. |

## SECTION 15 - REGULATORY INFORMATION

| | |
|---|---|
| WHMIS CLASSIFICATION | Not applicable. |

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

This product is not subject to the reporting requirements under California's Proposition 65

## SECTION 16 - OTHER INFORMATION

| | |
|---|---|
| ADDITIONAL INFORMATION | NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Use as directed. |
| EPA REGISTRATION # | 70627-24, formerly: 4822-360 |

## PREPARATION INFORMATION

| | |
|---|---|
| PREPARED BY | Manufacturer's Technical Support Department. Refer to page 1 (Manufacturer) for contact information. |

# HOJA DE DATOS DE SEGURIDAD DEL MATERIAL

MSDS # 114701001

## GLANCE HC

Fecha Emitada: 11Sep1996 — Reemplaza: Nueva


FABRICANTE (ESTADOS UNIDOS)
S.C. Johnson & Son, Inc.
Teléfono: (800) 725-6737
Racine, Wisconsin 53403-2236
Teléfono de Emergencia:
(800) 851-7145

FABRICANTE (CANADIENSE)
S.C. Johnson and Son, Limited
Teléfono: (519) 756-7900
1 Webster Street
Brantford, Ontario N3T 5R1
Emergencia Durante el Transporte:
CANUTEC (por cobrar) (613) 996-6666
Teléfono de emergencia: (800) 851-7145


| HAZARD RATING | HMIS | PELIGRO | NFPA |
|---|---|---|---|
| 4-Muy Alta | 3 | Salud | 3 |
| 3-Alta | 0 | Flamabilidad | 0 |
| 2-Moderada | 0 | Reactividad | 0 |
| 1-Ligera | | Especial | |
| 0-Insignificante | | | |

DISTRIBUÍDO EN CANADA POR:
S.C. Johnson and Son, Limited
Teléfono: (519) 758-6611
1 Webster Street
Brantford, Ontario N3T 5R1

### SECCIÓN 1 - IDENTIFICACIÓN DEL PRDUCTO

NOMBRE DEL PRODUCTO..... GLANCE HC
MOTIVO DEL CAMBIO..... Nuevo.
USO DEL PRODUCTO..... Industrial/Institucional: Productos de limpieza para el hogar. Este producto está destinado a ser diluido antes de usarse.

| UPC | SCJ CODE | CANTIDAD | PRESENTACIÓN AMERICANA | PRESENTACIÓN CANADIENSE |
|---|---|---|---|---|
| 46500 04967 | 4967 | 4 | | 2.5 L |

### SECCIÓN 2 - INFORMACIÓN DE INGREDIENTES

| INGREDIENTE | PESO % | LÍMITE DE EXPOSICIÓN/TOXICIDA |
|---|---|---|
| Xylen sulfonato de sodio (CAS# 1300-72-7)..... | 1-4 | NO ESTABLECIDO LD50: 2000 mg/kg (oral-rata) |
| Sulfato laurilo de sodio (CAS# 68585-47-7).... | 3-7 | NO ESTABLECIDO LD50: 1,288 mg/kg (oral-rata) |
| [PA NJ MA] Hidróxido de amonio..... (CAS# 1336-21-6) | 7-13 | 25 ppm ACGIH/OSHA TWA , 35 ppm ACGIH/OSHA STEL LD50: 350 mg/kg (oral-rata) |
| [PA NJ MA SARA] 2-Butoxietanol (CAS# 111-76-2) | 35-45 | 25 ppm ACGIH/OSHA TWA (PIEL) LD50: 560-3,000 mg/kg (oral-rata) LC50: 500 ppm (inhalación-rata) 4 hrs. |
| Agua (CAS# 7732-18-5)..... | 35-45 | NO ESTABLECIDO |

### SECCIÓN 3 -IDENTIFICACIÓN DE DAÑOS A LA SALUD(Véase tambien Sección 11)

RUTA(S) DE ENTRADA..... Contacto con los ojos: Contacto con la piel.
EFFECTOS POR EXPOSICIÓN AGUDA
OJOS..... Corrosivo y puede causar daño permanente incluyendo ceguera.
PIEL..... Irritación severa.
INHALACIÓN..... Puede ocasionar irritación o efectos corrosivos en la nariz, la garganta y las vías respiratorias.
INGESTIÓN..... Corrosive y puede causar daño permanente a la boca, la garanta y el estómago.
CONDICIONES MÉDICAS QUE SON GENERALMENTE RECONOCIDAS DE SER AGRAVADAS POR LA EXPOSICIÓN A ESTE MATERIAL: Personas con desordenes pre-existentes de la piel pueden ser más susceptibles a los efectos irritantes.

### SECCIÓN 4 - MEDIDAS DE PRIMEROS AUXILIOS

CONTACTO CON LOS OJOS.. Enjuagar inmediatamente con abundante agua durante 15-20 minutos. Obtener atención médica inmediatamente.
CONTACTO CON LA PIEL... Enjuagar inmediatamente con abundante agua durante 15-20 minutos. Obtener atención médica inmadiatamente.
INHALACIÓN..... Si la respiración está afectada, llevar al aire fresco. Obtener atención médica inmediatamente.
INGESTIÓN..... ¡No induzca el vómito! Beber 1-2 vasos de agua o leche. No le administre nada por vía oral a una persona inconsciente. Obtener atención médica inmediatamente.

### SECCIÓN 5 - INFORMACIÓN DE FUEGO Y EXPLOSIÓN

PUNTO DE INFLAMACIÓN... No aplicable.
LÍMITES DE FLAMABILIDAD No aplicable.
TEMPERATURA DE AUTOIGNICIÓN..... No aplicable.
MEDIO DE EXTINCIÓN..... Espuma. CO2. Producto químico seco. Niebla de agua.
PROCEDIMIENTOS ESPECIALES PARA COMBATIR FUEGOS..... Pueden utilizarse procedimientos normales para combatir fuegos.
PELIGROS DE FUEGO Y EXPLOSIÓN NO USUALES.... Sin peligros especiales conocidos.

### SECCIÓN 6 - MEDIDAS PREVENTIVAS

PASOS A TOMAR EN CASO DE QUE EL MATERIAL SE FUGUE O DERRAME.. Contiene amoníaco acuoso. No permita que el material fugado o derramado entre en corrientes de agua. Puede ser tóxico para la vida acuática. Absorba con oil-dri (polvo absorbente) o material inerte similar. Barra o recoja y coloque en contenedores. Lleve/use equipo protector apropiado.

### SECCIÓN 7 - MANEJO Y ALMACENAJE

INFORMACIÓN SOBRE PRECAUCIONES..... PELIGRO: CORROSIVO: EL CONCENTRADO OCASIONA QUEMADURAS DE LOS OJOS E IRRITACIÓN DE LA PIEL. Evitar contacto con piel, ojos y ropa. PERJUDICIAL O FATAL SI SE TRAGA. No probar ni tragar. Evitar la respiración del vapor. MANTENGASE FUERA DEL ALCANCE DE LOS NIÑOS. PARA USO INDUSTRIAL ÚNICAMENTE.
OTRAS CONDICIONES DE ALMACENAJE O MANEJO... Lave cuidadosamente después del manejo. Limpiar las calzado y la ropa meticulosamente antes de volver a usarlas. Mantener el recipiente cerrado. Usar sólo con ventilación adecuada.

### SECCIÓN 8 - INFORMACIÓN SOBRE PROTECCIONES ESPECIALES

PROTECCIÓN RESPIRATORIA Si la ventilación no controla los vahos/vapores adecuadamente, usar: Aprobado por NIOSH/OSHA Respirador para vapores orgánicos.
VENTILACIÓN..... Ventilación general del lugar es normalmante adecuada. Cantidades substanciales de nieblas/vapores pueden ser controladas con extractores locales o con protección respiratoria.
GUANTES PROTECTORES.... Neopreno.
PROTECCIÓN DE OJOS..... Gafas a prueba de salpicaduras químicas.
OTRAS MEDIDAS PROTECTORAS..... Calzado protector.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| COLOR | Clear Blue |
| PRODUCT STATE | Liquid. |
| ODOR | Ammonia-like |
| pH | 12.0-12.8 |
| ODOR THRESHOLD | Not available. |
| SOLUBILITY IN WATER | Complete |
| SPECIFIC GRAVITY (H2O=1) | 0.98 |
| VAPOR DENSITY (AIR=1) | Not applicable. |
| EVAPORATION RATE (BUTYL ACETATE=1) | Not applicable. |
| VAPOR PRESSURE (mm HG) | Not applicable. |
| BOILING POINT | Not applicable. |
| FREEZING POINT | < 32°F (< 0°C) |
| COEFFICIENT OF WATER/OIL | Not available. |
| PERCENT VOLATILE BY VOLUME (%) | Not available. |
| VOLATILE ORGANIC COMPOUND (VOC) | 2-Butoxyethanol |
| THEORETICAL VOC (LB/GAL) | Not available. |

## SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|---|
| STABILITY | Stable |
| STABILITY - CONDITIONS TO AVOID | None known. |
| INCOMPATIBILITY | None known. |
| HAZARDOUS DECOMPOSITION PRODUCTS | When exposed to fire: Produces normal products of combustion. |
| HAZARDOUS POLYMERIZATION | Will not occur. |
| HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID | None known. |

## SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3)

| | |
|---|---|
| LD50 (ACUTE ORAL TOX) | Corrosive |
| LD50 (ACUTE DERMAL TOX) | Not available. |
| EFFECTS OF CHRONIC EXPOSURE | None known. |
| SENSITIZATION | None known. |
| CARCINOGENICITY | None known. |
| REPRODUCTIVE TOXICITY | None known. |
| TERATOGENICITY | None known. |
| MUTAGENICITY | None known. |

## SECTION 12 - ECOLOGICAL INFORMATION

| | |
|---|---|
| ENVIRONMENTAL DATA | Contains ammonia. May be toxic to aquatic life. |

## SECTION 13 - DISPOSAL CONSIDERATIONS

| | |
|---|---|
| WASTE DISPOSAL INFORMATION | Disposal of undiluted product is regulated under environmental and transportation laws as a corrosive waste. |

## SECTION 14 - TRANSPORTATION INFORMATION

| | |
|---|---|
| US DOT INFORMATION | Please refer to the Bill of Lading/receiving documents for up-to-date shipping information. |
| CANADIAN SHIPPING NAME | GLANCE HC |
| TDG CLASSIFICATION | Non-regulated. |
| PIN/NIP | Not applicable. |
| PACKING GROUP | Not applicable. |
| EXEMPTION NAME | Not applicable. |

## SECTION 15 - REGULATORY INFORMATION

WHMIS CLASSIFICATION... D,2B; E

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

This product is not subject to the reporting requirements under California's Proposition 65. These ingredients from Section 2 are subject to the following reporting requirements:

PA - The Pennsylvania Hazardous Substance List
NJ - The New Jersey Right to Know Hazardous Substance List
MA - The Massachusetts Hazardous Substance List
SARA - The Superfund Amendments and Reauthorization Act of 1986 Title III, Section 313 and 40 CFR Part 372

## SECTION 16 - OTHER INFORMATION

| | |
|---|---|
| ADDITIONAL INFORMATION | Not applicable. |
| EPA REGISTRATION # | Not applicable. |

## PREPARATION INFORMATION

| | |
|---|---|
| PREPARED BY | Manufacturer's Technical Support Department. Refer to page 1 (Manufacturer) for contact information. |

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

PRINT DATE: 10Mar1997

# MATERIAL SAFETY DATA SHEET - 126027

Product Name: DUSTER PLUS DUSTING AND CLEANING SPRAY
Serial No: 1 Preparation Date: 07/29/94 Supersedes: 02/21/94

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES(cont.)

| | | | |
|---|---|---|---|
| VOLATILE ORGANIC COMPOUND (VOC): | Hydrocarbon propellant Isoparaffinic hydrocarbon. | THEORETICAL VOC (LB/GAL): | Not available. |

## SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

STABILITY - CONDITIONS TO AVOID: Not applicable.

INCOMPATIBILITY: No special requirements.

HAZARDOUS DECOMPOSITION PRODUCTS: No special requirements.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID: Not applicable.

## SECTION 11 - TOXICOLOGICAL INFORMATION (ALSO SEE SECTION 3)

LD50 (ACUTE ORAL TOX): Acute oral LD50 is estimated to be greater than 5000 mg/kg (rats).

LD50 (ACUTE DERMAL TOX): Not applicable.

LC50 (ACUTE INHALATION TOX): Not applicable.

EFFECTS OF CHRONIC EXPOSURE: None known.

SENSITIZATION: None known.

CARCINOGENICITY: None known.

REPRODUCTIVE TOXICITY: None known.

TERATOGENICITY: None known.

MUTAGENICITY: None known.

## SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INFORMATION: If possible, recycle empty aerosol can to nearest steel recycling center. Use up package or give to someone who can.

## SECTION 14 - TRANSPORTATION INFORMATION

US DOT INFORMATION: Aerosols, 2.1 , UN 1950 , Ltd. Qty.

CANADIAN SHIPPING NAME: AEROSOLS , Limited Quantity

TDG CLASSIFICATION: 2.1

PIN/NIP: UN 1950

# MATERIAL SAFETY DATA SHEET - 126027

**Product Name:** DUSTER PLUS DUSTING AND CLEANING SPRAY
**Serial No:** 1 **Preparation Date:** 07/29/94 **Supersedes:** 02/21/94

## SECTION 14 - TRANSPORTATION INFORMATION(cont.)

PACKING GROUP: X

EXEMPTION NAME: Limited Quantity

## SECTION 15 - REGULATORY INFORMATION

WHMIS CLASSIFICATION: A; B,5;

CAS #: Not applicable.

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

This product is not subject to the reporting requirements under California's Proposition 65.

These ingredients from Section 2 are subject to the following reporting requirements:

MA - The Massachusetts Hazardous Substance List

NJ - The New Jersey Right to Know Hazardous Substance List

PA - The Pennsylvania Hazardous Substance List

## SECTION 16 - OTHER INFORMATION

ADDITIONAL INFORMATION: NFPA 30B Level 2 Aerosol.

EPA REGISTRATION #: Not applicable

## PREPARATION INFORMATION

PREPARED BY: Manufacturer's Technical Support Department. Refer to page 1 (Manufacturer) for contact information.

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.
3-MAY-95 R-106 (Rev 8 - 3/93)

DR-752

# MATERIAL SAFETY DATA SHEET - 120027

Serial No: 1 Preparation Date: 07/29/94 Supersedes: 02/21/94

US MANUFACTURER
Drackett Professional
A Division of S.C. Johnson & Son, Inc.
Phone: (800) 725-6737
Racine, Wisconsin 53403-5011
Emergency Phone: (800) 851-7145

Hazard Rating
4-Very High
3-High
2-Moderate
1-Slight
0-Insignificant

| HMIS | | NFPA |
|---|---|---|
| 1 | Health | 1 |
| 4 | Flammability | 4 |
| 0 | Reactivity | 0 |
| | Special | |

## SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: DUSTER PLUS DUSTING AND CLEANING SPRAY™

REASON FOR CHANGE: Section 7.

PRODUCT USE: Industrial/Institutional: Furniture care

| FINISHED GOOD CODE | QUANTITY | US SIZE | CANADIAN SIZE |
|---|---|---|---|
| 94752 | 6 | 17 OZ | 482 G |

## SECTION 2 - INGREDIENT INFORMATION

| INGREDIENTS | WT % | EXPOSURE LIMIT/TOXICITY |
|---|---|---|
| [NJ] Light Naphthenic Distillate (CAS #64741-44-2) | 10-20 | 5 mg/m3 ACGIH TLV-TWA\OSHA PEL |
| Isoparaffinic Hydrocarbon Solvent (CAS #64742-48-9) | 7-12 | 300 ppm (Supplier Recommended) |
| [PA,NJ,MA] Propane (CAS #74-98-6) | 1-3 | 1000 PPM ACGIH\OSHA TWA |
| [PA,NJ,MA] Isobutane (CAS #75-28-5) | 5-10 | NOT ESTABLISHED |
| Water (CAS #7732-18-5) | 55-65 | NOT ESTABLISHED |

See Regulatory Information (Section 15) for explanation of bracketed information.

## SECTION 3 - HEALTH HAZARDS IDENTIFICATION

ROUTE(S) OF ENTRY: Eye contact. Skin contact.

EFFECTS OF ACUTE EXPOSURE - EYE: None known.

EFFECTS OF ACUTE EXPOSURE - SKIN: Prolonged or repeated contact may cause: Mild skin irritation.

EFFECTS OF ACUTE EXPOSURE - INHALATION: None known.

EFFECTS OF ACUTE EXPOSURE - INGESTION: Aspiration into the lungs may cause severe health effects.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: None known.

## SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Rinse with plenty of water.

FIRST AID - SKIN CONTACT: Wash contaminated area with water and soap.

FIRST AID - INHALATION: Remove to fresh air.

FIRST AID - INGESTION: Do not induce vomiting! Seek immediate medical attention.

# MATERIAL SAFETY DATA SHEET - 126027

**Product Name: DUSTER PLUS DUSTING AND CLEANING SPRAY**
**Serial No: 1 Preparation Date: 07/29/94 Supersedes: 02/21/94**

## SECTION 5 - FIRE AND EXPLOSION INFORMATION

| | |
|---|---|
| FLASH POINT: | <20°F (<-7°C) (TCC) (propellant) |
| FLAMMABLE LIMITS: | Not available. |
| AUTO-IGNITION TEMPERATURE: | Not available. |
| EXTINGUISHING MEDIA: | Foam. CO2. Dry chemical. Water fog. |
| SPECIAL FIREFIGHTING PROCEDURES: | Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Fire fighters should wear self-contained breathing apparatus and protective clothing. |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: | Aerosol product - Containers may rocket or explode in heat of fire. |

## SECTION 6 - PREVENTIVE RELEASE MEASURES

| | |
|---|---|
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: | Eliminate all ignition sources. Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. |

## SECTION 7 - HANDLING AND STORAGE

| | |
|---|---|
| PRECAUTIONARY INFORMATION: | DANGER: May be: Harmful or fatal if swallowed. FLAMMABLE: Contains: petroleum distillate. Contents under pressure. Do not use near open fire, flames or heat. Do not store at temperatures above 120 °F (50 °C). Do not puncture or incinerate. Keep out of reach of children. |
| OTHER HANDLING AND STORAGE CONDITIONS: | Store in a cool, dry place with adequate ventilation. Keep from freezing. |

## SECTION 8 - SPECIAL PROTECTION INFORMATION

| | |
|---|---|
| RESPIRATORY PROTECTION: | No special requirements under normal use conditions. |
| VENTILATION: | General room ventilation is normally adequate. Substantial amounts of mists/vapors can be controlled with local exhaust ventilation or respiratory protection. |
| PROTECTIVE GLOVES: | No special requirements under normal use conditions. |
| EYE PROTECTION: | No special requirements under normal use conditions. |
| OTHER PROTECTIVE MEASURES: | No special requirements. |

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| COLOR: | Off-white | PRODUCT STATE: | Dispensed as a spray mist. |
| ODOR: | Characteristic | pH: | Not applicable. |
| ODOR THRESHOLD: | Not available. | SOLUBILITY IN WATER: | Dispersible |
| SPECIFIC GRAVITY: | 0.9 | VAPOR DENSITY (AIR=1): | Not available. |
| EVAPORATION RATE (BUTYL ACETATE=1): | Not available. | VAPOR PRESSURE (mm HG): | Not available. |
| BOILING POINT: | Not applicable. | FREEZING POINT: | Not applicable. |
| COEFFICIENT OF WATER/OIL: | Not available. | PERCENT VOLATILE BY VOLUME (%): | Not available. |

# MATERIAL SAFETY DATA SHEET

MSDS # 114518001

# GP FORWARD SC

Date Issued: 11Sep1996

Supersedes: New

US MANUFACTURER:
S.C. Johnson & Son, Inc.
Phone: (800) 725-6737
Racine, Wisconsin 53403-2236
Emergency Phone: (800) 851-7145

CANADIAN MANUFACTURER:
S.C. Johnson and Son, Limited
Phone: (519) 756-7900
1 Webster Street
Brantford, Ontario N3T 5R1
Transportation Emergency:
CANUTEC (collect) (613) 996-6666
Emergency Phone: (800) 851-7145

DISTRIBUTED IN CANADA BY:
S.C. Johnson and Son, Limited
Phone: (519) 758-6611
1 Webster Street
Brantford, Ontario N3T 5R1

| HAZARD RATING | HMIS | HAZARD | NFPA |
|---|---|---|---|
| 4-Very High | 3 | Health | 3 |
| 3-High | 0 | Flammability | 0 |
| 2-Moderate | 0 | Reactivity | 0 |
| 1-Slight | | Special | |
| 0-Insignificant | | | |

## SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME..... GP FORWARD SC
REASON FOR CHANGE..... New.
PRODUCT USE..... Industrial/Institutional Floor care. This product is intended to be diluted prior to use.

## SECTION 2 - INGREDIENT INFORMATION

| INGREDIENT | WEIGHT% | EXPOSURE LIMIT/TOXICITY |
|---|---|---|
| Tetrasodium Salt of EDTA (CAS# 64-02-8)..... | 1-3 | NOT ESTABLISHED LD50: 300 mg/kg (oral-rat) LC50: >5,000 mg/kg (dermal-rabbit) |
| Octanoic Acid (CAS# 124-07-2)..... | 1-5 | NOT ESTABLISHED |
| Alcohol Ethoxylates (CAS# 68439-46-3)..... | 3-7 | NOT ESTABLISHED LD50: 1,400 mg/kg (oral-rat) 5,000 mg/kg (dermal-rabbit) |
| Sodium Xylene Sulfonate (CAS# 1300-72-7)..... | 3-7 | NOT ESTABLISHED LD50: 2000 mg/kg (oral-rat) |
| [PA NJ MA] Sodium Hydroxide (CAS# 1310-73-2).. | 3-7 | 2 mg/m³ ACGIH/OSHA CEILING LD50: 140-340 mg/kg (oral-rat) LC50: 1 mg/m3 (inhalation-rat) 1 hr. |
| Sodium Silicate (CAS# 1344-09-8)..... | 10-15 | NOT ESTABLISHED LD50: 2,150 mg/kg (oral-rat). |
| Water (CAS# 7732-18-5)..... | 70-80 | NOT ESTABLISHED |

## SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11)

ROUTE(S) OF ENTRY..... Eye contact. Skin contact.
EFFECTS OF ACUTE EXPOSURE:
EYE..... Corrosive and may cause permanent damage including blindness.
SKIN..... Corrosive and may cause permanent damage.
INHALATION..... May cause irritation or corrosive effects to nose, throat and respiratory tract.
INGESTION..... Corrpsive and may cause permanent damage to mouth, throat and stomach.
MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE..... None known.

## SECTION 4 - FIRST AID MEASURES

EYE CONTACT..... Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately.
SKIN CONTACT..... Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately.
INHALATION..... If breathing is affected, remove to fresh air. Get medical attention immediately.
INGESTION..... Do not induce vomiting. Immediately drink 1-2 glasses of water or milk. Do not administer anything by mouth to an unconscious person. Get medical attention immediately.

## SECTION 5 - FIRE AND EXPLOSION INFORMATION

FLASH POINT..... Not applicable.
FLAMMABLE LIMITS (LEL, UEL)..... Not applicable.
AUTOIGNITION TEMPERATURE..... Not applicable.
EXTINGUISHING MEDIA..... Foam. CO2. Dry chemical. Water fog or fine spray.
SPECIAL FIREFIGHTING PROCEDURES..... Normal fire fighting procedures may be used. Cool and use caution when approaching or handling fire-exposed containers.
UNUSUAL FIRE AND EXPLOSION HAZARDS..... Corrosive Material (See Sections 9 and 10).

## SECTION 6 - PREVENTIVE RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED..... Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. Wear/use appropriate protective equipment.

## SECTION 7 - HANDLING AND STORAGE

PRECAUTIONARY INFORMATION..... DANGER: CORROSIVE: CONCENTRATE CAUSES EYE AND SKIN BURNS. Avoid contact with skin, eyes and clothing. HARMFUL OR FATAL IF SWALLOWED. Do not taste or swallow. Avoid breathing vapor. KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.
OTHER HANDLING AND STORAGE CONDITIONS..... Wash thoroughly after handling. Thoroughly clean footwear and clothing before reuse. Keep container closed. Use only with adequate ventilation.

## SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION. If mists/vapors are not adequately controlled by ventilation, use: NIOSH/OSHA approved Dust/mist respirator.
VENTILATION..... General room ventilation is normally adequate. Substantial amounts of mists/vapors can be controlled with local exhaust ventilation or respiratory protection.
PROTECTIVE GLOVES..... Neoprene.
EYE PROTECTION..... Chemical splash-proof goggles.
OTHER PROTECTIVE MEASURES..... Protective footwear.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| COLOR | Clear Green |
| PRODUCT STATE | Liquid. |
| ODOR | Mild Citrus |
| pH | 12.5 Min. |
| ODOR THRESHOLD | Not available. |
| SOLUBILITY IN WATER | Complete |
| SPECIFIC GRAVITY (H2O=1) | 1.2 |
| VAPOR DENSITY (AIR=1) | Not available. |
| EVAPORATION RATE (BUTYL ACETATE=1) | Not available. |
| VAPOR PRESSURE (mm HG) | Not available. |
| BOILING POINT | 212°F (100°C) |
| FREEZING POINT | 32°F (0°C) |
| COEFFICIENT OF WATER/OIL | Not available. |
| PERCENT VOLATILE BY VOLUME (%) | Not available. |
| VOLATILE ORGANIC COMPOUND (VOC) | Not available. |
| THEORETICAL VOC (LB/GAL) | Not available. |

## SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|---|
| STABILITY | Stable |
| STABILITY - CONDITIONS TO AVOID | None known. |
| INCOMPATIBILITY | Strong acids (eg., muriatic acid). Strong oxidizing materials (e.g. liquid chlorine). Avoid contact with: Non ferrous metals. (e.g., zinc, aluminum) |
| HAZARDOUS DECOMPOSITION PRODUCTS | When exposed to fire: Produces normal products of combustion. |
| HAZARDOUS POLYMERIZATION | Will not occur. |
| HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID | No special requirements. |

## SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3)

| | |
|---|---|
| LD50 (ACUTE ORAL TOX) | Corrosive |
| LD50 (ACUTE DERMAL TOX) | Not available. |
| EFFECTS OF CHRONIC EXPOSURE | None known. |
| SENSITIZATION | None known. |
| CARCINOGENICITY | None known. |
| REPRODUCTIVE TOXICITY | None known. |
| TERATOGENICITY | None known. |
| MUTAGENICITY | None known. |

## SECTION 12 - ECOLOGICAL INFORMATION

| | |
|---|---|
| ENVIRONMENTAL DATA | Not available. |

## SECTION 13 - DISPOSAL CONSIDERATIONS

| | |
|---|---|
| WASTE DISPOSAL INFORMATION | Disposal of undiluted product is regulated under environmental and transportation laws as a corrosive waste. |

## SECTION 14 - TRANSPORTATION INFORMATION

| | |
|---|---|
| US DOT INFORMATION | Corrosive liquids N.O.S. ( Sodium Hydroxide, Sodium Silicate ), 8, UN 1760, PG III, (Ltd. Qty. for Packaging under 33 oz./1 liter) |
| CANADIAN SHIPPING NAME | CORROSIVE LIQUIDS, N.O.S. ( Sodium Hydroxide, Sodium Silicate ) |
| TDG CLASSIFICATION | 8 |
| PIN/NIP | UN 1760 |
| PACKING GROUP | III |
| EXEMPTION NAME | Limited Quantity, for packages less than 1.8 litres in compliance with section 1.2 of the TDGR |

## SECTION 15 - REGULATORY INFORMATION

| | |
|---|---|
| WHMIS CLASSIFICATION | D,2B; E |

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

This product is not subject to the reporting requirements under California's Proposition 65. These ingredients from Section 2 are subject to the following reporting requirements:

PA - The Pennsylvania Hazardous Substance List
NJ - The New Jersey Right to Know Hazardous Substance List
MA - The Massachusetts Hazardous Substance List

## SECTION 16 - OTHER INFORMATION

| | |
|---|---|
| ADDITIONAL INFORMATION | Use as directed. |
| EPA REGISTRATION # | Not applicable. |

## PREPARATION INFORMATION

| | |
|---|---|
| PREPARED BY | Manufacturer's Technical Support Department. Refer to page 1 (Manufacturer) for contact information. |

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.
PRINT DATE: 14Mar1997

MATERIAL SAFETY DATA SHEET

MSDS # 113909002

# CITRUS STRIDE® SC

**Date Issued: 25Mar1994** **Supersedes: 16Apr1991**


US MANUFACTURER:
S.C. Johnson & Son, Inc.
Phone: (800) 725-6737
Racine, Wisconsin 53403-2236
Emergency Phone: (800) 228-5635 Ext 092
International
Emergency Phone: (612) 221-3999 Ext 092

CANADIAN MANUFACTURER:
S.C. Johnson and Son, Limited
Phone: (519) 756-7900
1 Webster Street
Brantford, Ontario N3T 5R1
Transportation Emergency:
CANUTEC (collect) (613) 996-6666
Poison Control: (800) 228-5635 Ext 092


| HAZARD RATING | HMIS | HAZARD | NFPA |
|---|---|---|---|
| 4-Very High | 1 | Health | 1 |
| 3-High | 0 | Flammability | 0 |
| 2-Moderate | 0 | Reactivity | 0 |
| 1-Slight | | Special | |
| 0-Insignificant | | | |

DISTRIBUTED IN CANADA BY:
S.C. Johnson and Son, Limited
Phone: (519) 758-6611
1 Webster Street
Brantford, Ontario N3T 5R1

## SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME..... CITRUS STRIDE® SC
REASON FOR CHANGE..... New format.
PRODUCT USE..... Industrial/Institutional: Floor care

| UPC | SCJ CODE | QUANTITY | US SIZE | CANADIAN SIZE |
|---|---|---|---|---|
| 46500 04315 | 4315 | 4 | 64 OZ | 1.89 L |
| 46500 03909 | 3909 | 6 | 32 OZ | 946 ML |

## SECTION 2 - INGREDIENT INFORMATION

| INGREDIENT | WEIGHT% | EXPOSURE LIMIT/TOXICITY |
|---|---|---|
| Sodium Citrate (CAS# 68-04-2)..... | 1-2 | NOT ESTABLISHED |
| Citric Acid (CAS# 77-92-9)..... | 1-2 | NOT ESTABLISHED LD50: 11,700 mg/kg (oral-rat) |
| Alkoxylated Fatty Alcohol (CAS# 69227-21-0)... | 10-15 | NOT ESTABLISHED LD50: >1,200 mg/kg (oral-rat) ; >2,000 mg/kg (dermal-rabbit) |
| Water (CAS# 7732-18-5)..... | 80-90 | NOT ESTABLISHED |

## SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11)

ROUTE(S) OF ENTRY..... Eye contact. Skin contact.
EFFECTS OF ACUTE EXPOSURE:
EYE..... May cause: Mild eye irritation.
SKIN..... None known.
INHALATION..... None known.
INGESTION..... None known.
MEDICAL CONDITIONS..... None known.
GENERALLY RECOGNIZED
AS BEING AGGRAVATED
BY EXPOSURE

## SECTION 4 - FIRST AID MEASURES

EYE CONTACT..... Flush immediately with water for 20 minutes. If irritation persists, get medical attention.
SKIN CONTACT..... Wash contaminated area with water and soap.
INHALATION..... Remove to fresh air.
INGESTION..... Immediately drink 1-2 glasses of water or milk.

## SECTION 5 - FIRE AND EXPLOSION INFORMATION

FLASH POINT..... Not applicable.
FLAMMABLE LIMITS..... Not applicable.
AUTOIGNITION TEMPERATURE..... Not applicable.
EXTINGUISHING MEDIA.... Foam. CO2. Dry chemical. Water fog.
SPECIAL FIREFIGHTING PROCEDURES... Normal fire fighting procedure may be used.
UNUSUAL FIRE AND EXPLOSION HAZARDS..... No special hazards known.

## SECTION 6 - PREVENTIVE RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED... Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. Wear/use appropriate protective equipment.

## SECTION 7 - HANDLING AND STORAGE

PRECAUTIONARY INFORMATION..... CAUTION: Eye irritant. Avoid contact with eyes. If such contact occurs, flush immediately with water for 20 minutes. If irritation persists, seek medical aid.
OTHER HANDLING AND STORAGE CONDITIONS..... Store in a cool, dry place with adequate ventilation. Wash thoroughly after handling. Keep out of reach of children.

## SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION. No special requirements under label recommanded use directions.
VENTILATION..... General room ventilation adequate.
PROTECTIVE GLOVES..... No special requirements under normal use conditions.
EYE PROTECTION..... No special requirements under normal use conditions.
OTHER PROTECTIVE MEASURES..... If major exposure is possible to eyes/skin, wear/use appropriate protective equipment.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| COLOR | Orange |
| PRODUCT STATE | Liquid. |
| ODOR | Citrus |
| pH | 4.0-4.8 |
| ODOR THRESHOLD | Not available. |
| SOLUBILITY IN WATER | Complete |
| SPECIFIC GRAVITY (H2O=1) | 1.02 |
| VAPOR DENSITY (AIR=1) | Not available. |
| EVAPORATION RATE (BUTYL ACETATE=1) | Not available. |
| VAPOR PRESSURE (mm HG) | Not available. |
| BOILING POINT | 212°F (100°C) |
| FREEZING POINT | 32°F (0°C) |
| COEFFICIENT OF WATER/OIL | Not available. |
| PERCENT VOLATILE BY VOLUME (%) | > 90 |
| VOLATILE ORGANIC COMPOUND (VOC) | Not available. |
| THEORETICAL VOC (LB/GAL) | Not available. |

## SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|---|
| STABILITY | Stable |
| STABILITY - CONDITIONS TO AVOID | No special requirements. |
| INCOMPATIBILITY | Do not mix with any other chemicals or products unless specified by label. |
| HAZARDOUS DECOMPOSITION PRODUCTS | Produces normal products of combustion. |
| HAZARDOUS POLYMERIZATION | Will not occur. |
| HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID | No special requirements. |

## SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3)

| | |
|---|---|
| LD50 (ACUTE ORAL TOX) | Acute oral LD50 is estimated to be greater than 5000 mg/kg (rats). |
| LD50 (ACUTE DERMAL TOX) | Not available. |
| LC50 (ACUTE INHALATION TOX) | Not available. |
| EFFECTS OF CHRONIC EXPOSURE | None known. |
| SENSITIZATION | None known. |
| CARCINOGENICITY | Not available. |
| REPRODUCTIVE TOXICITY | None known. |
| TERATOGENICITY | None known. |
| MUTAGENICITY | None known. |

## SECTION 12 - ECOLOGICAL INFORMATION

| | |
|---|---|
| ENVIRONMENTAL DATA | Not available. |

## SECTION 13 - DISPOSAL CONSIDERATIONS

| | |
|---|---|
| WASTE DISPOSAL INFORMATION | No special method. Observe all applicable Federal/ Provincial/ State regulations and Local/ Municipal ordinances regarding disposal of non-hazardous materials. |

## SECTION 14 - TRANSPORTATION INFORMATION

| | |
|---|---|
| US DOT INFORMATION | Cleaning, scouring or washing compounds, N.O.I., Liquids |
| CANADIAN SHIPPING NAME | CITRUS STRIDE SC |
| TDG CLASSIFICATION | Non-regulated. |
| PIN/NIP | Not applicable. |
| PACKING GROUP | Not applicable. |
| EXEMPTION NAME | Not applicable. |

## SECTION 15 - REGULATORY INFORMATION

WHMIS CLASSIFICATION: Non-regulated.

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

This product is not subject to the reporting requirements under California's Proposition 65.

## SECTION 16 - OTHER INFORMATION

| | |
|---|---|
| ADDITIONAL INFORMATION | Use as directed. |
| EPA REGISTRATION # | Not applicable. |

## PREPARATION INFORMATION

| | |
|---|---|
| PREPARED BY | Manufacturer's Technical Support Department. Refer to page 1 (Manufacturer) for contact information. |

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

PRINT DATE: 13Sep1996

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

| | |
|---|---|
| MANUFACTURER'S NAME: Reliable Products Division of Mid-York Products Inc. | EMERGENCY TELEPHONE NO.: (315)697 9422 |
| ADDRESS (Number, Street, City, State, and ZIP Code): Mt. Pleasant Road, Canastota, N.Y. 13032 | |
| CHEMICAL NAME AND SYNONYMS: All-Purpose Alkaline Cleaner | TRADE NAME AND SYNONYMS: Super Spray Cleaner |
| CHEMICAL FAMILY: Alkaline detergent | FORMULA: Blended detergent solution |

## SECTION II - HAZARDOUS INGREDIENTS

| PAINTS, PRESERVATIVES, & SOLVENTS | % | TLV (Units) | ALLOYS AND METALLIC COATINGS | % | TLV (Units) |
|---|---|---|---|---|---|
| PIGMENTS | | | BASE METAL | | |
| CATALYST | | | ALLOYS | | |
| VEHICLE | | | METALLIC COATINGS | | |
| SOLVENTS Ethylene glycol-butyl ether | | | FILLER METAL PLUS COATING OR CORE FLUX | | |
| ADDITIVES Contains less than | 5.0 | 50ppm | OTHERS | | |
| OTHERS Note: Ethylene glycol-butyl ether-readily absorbed through skin(Wear protective gloves) | | | | | |

| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | % | TLV (Units) |
|---|---|---|
| Caustic Soda (Alkaline Material) Contains less than | 0.20 | |
| Sod-meta Silicate (Alkaline Material) Contains less than | 1.0 | |
| | | |
| | | |

## SECTION III - PHYSICAL DATA

| | | | |
|---|---|---|---|
| BOILING POINT (°F.) Approx. | 212°F | SPECIFIC GRAVITY ($H_2O$=1) | 1.020 |
| VAPOR PRESSURE (mm Hg.) | | PERCENT, VOLATILE BY VOLUME (%) | |
| VAPOR DENSITY (AIR=1) | | EVAPORATION RATE (Water = 1) | 1.0 |
| SOLUBILITY IN WATER | complete | | |
| APPEARANCE AND ODOR | Colorless liquid-mild pleasant odor | | |

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

| | | | | |
|---|---|---|---|---|
| FLASH POINT (Method used) | NOne | FLAMMABLE LIMITS | Lel | Uel |
| EXTINGUISHING MEDIA | N.A. | | | |
| SPECIAL FIRE FIGHTING PROCEDURES | N.A. | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | N.A. | | | |



(Continued on reverse side)

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE Product is a Alkaline cleaner and is irritating to skin and eyes. May cause eye burns if splashed into eyes.

EMERGENCY AND FIRST AID PROCEDURES Avoid excessive skin contact. Wash skin with soap and water. For eye contact-flush with water for 15 mintues. Consult physician.

## SECTION VI - REACTIVITY DATA

| | | | |
|---|---|---|---|
| STABILITY | UNSTABLE | | CONDITIONS TO AVOID |
| | STABLE | XX | None |

INCOMPATABILITY *(Materials to avoid)*

HAZARDOUS DECOMPOSITION PRODUCTS

| | | | |
|---|---|---|---|
| HAZARDOUS POLYMERIZATION | MAY OCCUR | | CONDITIONS TO AVOID |
| | WILL NOT OCCUR | | |

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

For large spill-absorb on sand, saw dust, etc. and dispose of in container. For small spill flush down with water. Product is biodegradable.

WASTE DISPOSAL METHOD Assure conformity with applicable enviromental regulations in your area.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*

| | | |
|---|---|---|
| VENTILATION NONE | LOCAL EXHAUST | SPECIAL |
| | MECHANICAL *(General)* | OTHER |

PROTECTIVE GLOVES Yes

EYE PROTECTION Use splash goggles (will cause eye burns)

OTHER PROTECTIVE EQUIPMENT

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

OTHER PRECAUTIONS Avoid contact with eyes and excessive skin exposure. Is a Alkaline detergent.

Hazardous Material Spills:
NYS Department Environmental Conservation :
226-2466...(607) 324-6506

# MATERIAL SAFETY DATA SHEET

MSDS DATE: 12/30/99

CHEMTREC:
Emergency Tele #: (800) 424-9300

RELIABLE PRODUCTS 639 FITCH STREET ONEIDA, NEW YORK 13421 (315) 363-9202

## I. PRODUCT IDENTIFICATION

Product Name: Spray Cleaner | CAS No.: NA | MSDS No.: A-1009

## II. Hazardous Ingredients / Identity Info.

| Hazardous Components (Specific ID) | OSHA PEL | ACGIH TLV | Other Limits | LD50 |
|---|---|---|---|---|
| Caustic Soda (CAS No. 1310-79-2) | 2mg/M3 | irritant-ca | | <2.0 |
| Sodium meta Silicate (CAS No. 6834-92-0) | 2mg/M3 | irritant-ca | | <1.0 |
| Ethylene glycol butyl ether (CAS No. 111-76-2) | 50 ppm | | | <5.0 |
| | | | | |
| | | | | |

## III. Physical Data

Boiling Point: 212 deg F
Vapor Pressure (mm Hg.): ND
Vapor Density (Air=1): ND
Solubility in Water: complete

Specific Gravity (Water=1): 1.02
Melting Point: NA
Evaporation Rate (Water=1): 1.0
Appearance & Odor: clear, thin liquid, mild odor

## IV. Fire and Explosion Data

Flash Point (Method Used): none
Extinguishing Media: ND
Unusual Fire and Explosion Hazards: ND

Flammable Limits: LEL: NA UEL: NA

Special Fire Fighting Procedures: ND

## V. Reactivity Data

| Stability | | | |
|---|---|---|---|
| Stable | X | Unstable | |

Conditions to Avoid: none known
Materials to Avoid: none known

| Hazardous Polymerization | | | |
|---|---|---|---|
| May Occur | | Not Occur | X |

Hazardous Decomposition or Byproducts: Oxides of nitrogen and oxygen
Conditions to Avoid: ND

## VI. Health Hazard Data

Routes of Entry: Inhalation: X Skin: X Ingestion: X Eyes: X

Health Hazards (Acute and Chronic):

May cause severe eye burn. May irritate skin. High vapor concentration may cause irritation to nose, throat and respiratory tract. Ingestion may result in vomiting - aspiration into lungs must be avoided.

Carcinogenicity: NTP: NO IARC Monographs: NO OSHA Regulated: NO

Signs and Symptoms of Exposure: Irritation as noted

Medical Conditions Aggravated by Exposure: Pre-existing skin disorders may be further aggravated by exposure to this product

Emergency and First Aid Procedures: Eye/Skin Contact: Flush w/ water at least 15 minutes. Seek immediate medical attention. Ingestion: Do not induce vomiting. Seek medical attention immediately.

## VII. Precautions for Safe Handling and Use

Procedures in Case of Spill or Release:

Large Spill: Dike and contain. Remove using an absorbant (eg. dirt). Small spill: rinse to sewer.

Waste Disposal Method(s): Refer to Fed., State, and local regulations

Handling and Storing Precautions: Avoid release into natural waters or public water. Avoid eye contact or excessive skin contact.

Other Precautions: Keep in closed containers when not in use.

## VIII. Control Measures

Respiratory Protection (Specify Type): ND

Protective Gloves: chemical resistant

Eye Protection: safety glasses or goggles

Other Protective Clothing or Equipment: ---

| Ventilation | | | | |
|---|---|---|---|---|
| | Local Exhaust: | X | Special: | --- |
| | Mechanical: | --- | Other: | --- |

Work Hygienic Practices: Wash hands after using this product. Wash or rinse clothing after contact with this product.

B774

MATERIAL SAFETY DATA SHEET



MSDS # 114570006

# CREW NA BOWL CLEANER

**Date Issued: 12Apr1996**

**Supersedes: 12Jul1995**

US MANUFACTURER:
S.C. Johnson Commercial Markets, Inc.
S.C. Johnson Professional
8310 16th Street
Sturtevant, Wisconsin 53177-0902
Phone: (800) 725-6737
MSDS Internet Address:
www.scjprofessional.com
Emergency Phone: (800) 851-7145

CANADIAN MANUFACTURER:
S.C. Johnson Professional, Inc.
Phone: (519) 756-7900
1 Webster Street, Suite 100
Brantford, Ontario N3T 5R1
Transportation Emergency:
CANUTEC (collect) (613) 996-6666
Emergency Phone: (800) 851-7145

| HAZARD RATING | HMIS | HAZARD | NFPA |
|---|---|---|---|
| 4-Very High | 1 | Health | 1 |
| 3-High | 0 | Flammability | 0 |
| 2-Moderate | 0 | Reactivity | 0 |
| 1-Slight | | Special | |
| 0-Insignificant | | | |

DISTRIBUTED IN CANADA BY:
S.C. Johnson Professional, Inc.
Phone: (519) 758-6611
1 Webster Street, Suite 100
Brantford, Ontario N3T 5R1

## SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME..... CREW NA BOWL CLEANER
REASON FOR CHANGE..... No significant changes.
PRODUCT USE..... Industrial/Institutional: Cleaning product

## SECTION 2 - INGREDIENT INFORMATION

| INGREDIENT | WEIGHT% | EXPOSURE LIMIT/TOXICITY |
|---|---|---|
| QUATERNARY AMMONIUM COMPOUNDS..... | <0.5 | NOT ESTABLISHED |
| WATER (CAS# 7732-18-5)..... | 95-99.5 | NOT ESTABLISHED |

## SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11)

ROUTE(S) OF ENTRY..... Skin contact.
EFFECTS OF ACUTE EXPOSURE:
EYE..... None known.
SKIN..... None known.
INHALATION..... None known.
INGESTION..... None known.
MEDICAL CONDITIONS..... None known.
GENERALLY RECOGNIZED
AS BEING AGGRAVATED
BY EXPOSURE

## SECTION 4 - FIRST AID MEASURES

EYE CONTACT..... Flush immediately with plenty of water for at least 15 to 20 minutes. If irritation persists, get medical attention.
SKIN CONTACT..... Wash contaminated area with water and soap.
INHALATION..... Remove to fresh air.
INGESTION..... Immediately drink 1-2 glasses of water or milk. Do not administer anything by mouth to an unconscious person.

## SECTION 5 - FIRE AND EXPLOSION INFORMATION

FLASH POINT..... Not applicable.

# CREW NA BOWL CLEANER

**Date Issued: 12Apr1996** **Supersedes: 12Jul1995**

## SECTION 5 - FIRE AND EXPLOSION INFORMATION (continued)

| | |
|---|---|
| FLAMMABLE LIMITS..... | Not applicable. |
| AUTOIGNITION..... TEMPERATURE | Not applicable. |
| EXTINGUISHING MEDIA.... | Foam. CO2. Dry chemical. Water fog. |
| SPECIAL FIREFIGHTING... PROCEDURES | Normal fire fighting procedure may be used. |
| UNUSUAL FIRE AND..... EXPLOSION HAZARDS | No special requirements. |

## SECTION 6 - PREVENTIVE RELEASE MEASURES

| | |
|---|---|
| STEPS TO BE TAKEN IN... CASE MATERIAL IS RELEASED OR SPILLED | Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. |

## SECTION 7 - HANDLING AND STORAGE

| | |
|---|---|
| PRECAUTIONARY..... INFORMATION | CAUTION: Keep out of reach of children. |
| OTHER HANDLING AND..... STORAGE CONDITIONS | Keep from freezing. Wash thoroughly after handling. |

## SECTION 8 - SPECIAL PROTECTION INFORMATION

| | |
|---|---|
| RESPIRATORY PROTECTION. | No special requirements under label recommended use directions. |
| VENTILATION..... | General room ventilation adequate. |
| PROTECTIVE GLOVES..... | No special requirements under normal use conditions. If prolonged or repeated contact is possible: Any impervious material. |
| EYE PROTECTION..... | No special requirements under normal use conditions. |
| OTHER PROTECTIVE..... MEASURES | If major exposure is possible to eyes/skin, wear/use appropriate protective equipment. |

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| COLOR..... | Blue |
| PRODUCT STATE..... | Liquid. |
| ODOR..... | Floral |
| pH..... | 10.5-12.0 |
| ODOR THRESHOLD..... | Not available. |
| SOLUBILITY IN WATER.... | Complete |
| SPECIFIC GRAVITY..... (H2O=1) | ~ 1.01 |
| VAPOR DENSITY (AIR=1).. | Same as water. |
| EVAPORATION RATE (BUTYL ACETATE=1) | Not available. |
| VAPOR PRESSURE (mm HG). | Same as water. |
| BOILING POINT..... | > 200°F (> 93°C) |
| FREEZING POINT..... | ~ 32°F (~ 0°C) |
| COEFFICIENT OF..... WATER/OIL | Not available. |
| PERCENT VOLATILE BY.... VOLUME (%) | > 96 |
| VOLATILE ORGANIC..... COMPOUND (VOC) | Not available. |

OSR – 3
(EEEPC Revision 2)

CONFIDENTIAL
B776

# 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 JEFFREY NELLENBACK Date/Time Prepared 12/19/06 9:00

Preparer's Affiliation DOLPHIN TECHNOLOGY INC Phone No. 315-838-7045

Purpose of Investigation Indoor Air Quality in Vicinity of 775 Site

Property Address: 474 PHOENIX DRIVE, ROME, NY 13441

Location/Sample ID: Building 776. Samples 776-IA1 + IA2

**1. OCCUPANT: Interviewed:** (Y) N

Last Name: Nellenback First Name: Jeffrey G.

Address: 474 Phoenix Dr Rome NY 13441

County: Oneida

Home Phone: — Office Phone: 315-838-7045

Typical Number of Occupants/persons at this location 80

Approximate Age of Occupants 37

Typical hours of occupancy: From 7:00 am To 6:00 pm

**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 | Municipal / Government |
| Other (Describe): _____ | | * offices |

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

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

Business Type(s) SOFTWARE DEVELOPMENT

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

**Other Building Characteristics:**

Number of floors 1 Approx. building age_____

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

**4. AIRFLOW**
**Qualitatively describe:**

Airflow between floors NA

Airflow near source

Outdoor air infiltration (43 Heat Pumps) Via Heat Pump System, Windows & Doors all newer (≃ 4yrs old) and Windows do NOT open.

Infiltration into air ducts See above

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

| | | | | | |
|---|---|---|---|---|---|
| a. **Above grade construction:** | wood frame | (concrete) | stone | (brick) | other _____ |
| b. **Basement type:** | full | crawlspace | (slab) | other _____ | *12" Thick |
| 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 / (NA) | | | | |
| l. **Sump covered/sealed?** | Y / N / (NA) | | | | |
| m. **Floor drains present?** | (Y) N / NA In bathrooms | | | | |
| n. **Perimeter trench drains present?** | Y / (N) / NA | | | | |
| o. **Indoor cisterns/drywell?** | Y / (N) / NA | | | | |
| p. **Laundry chute to 1st or 2nd Floors?** | Y / N / (NA) | | | | |

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

**Identify and describe potential soil vapor entry points and approximate size (e.g., floor cracks, utility ports, floor drains, wall cracks, weeps, or indoor wells)**

* Bathroom floor Drains
* One Crack in Concrete floor, near building 100 & Main Comp. Room

**Other Comments:** Heat Pumps on Roof, circulate outside air constantly.

## 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 _____ |

Approximate age of heating system(s): 4 YRS

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

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

**Domestic hot water tank fueled by:** ELECTRIC

**Fuel oil storage location/condition/size, if applicable:** N/A

**Boiler/furnace located in:** Basement Outdoors Main Floor Other Heat Pumps on Roof

**Storage wood or coal:** NA Basement Outdoors Main Floor Other _____

**Fireplace(s) located in:** NA Basement Main Floor Other _____

**Air conditioning:** (Central Air) ← Heat Pumps w/cooling tower outside. Window units Open Windows None

**Dehumidification:** Stand alone unit (Located on central air system)

**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.**

System is 4yrs. old, Colder air enters void space above ceiling and exists through heat exchangers.

**7. OCCUPANCY Is basement/lowest level occupied?** Full-time Occasionally Seldom Almost Never

| Level | General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage) |
|---|---|
| Basement | N/A |
| 1st Floor | OFFICES |
| 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, boat) 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? Tues, Thur, Sun.

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? Outdoors

n. **Is there a bathroom exhaust fan?** ☐ Basement (Y)/ N If yes, where vented? Outdoors
☑ First floor

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

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

q. **Basement windows?** NA Type: Casement Awning Glass block Condition: _____

r. **Are there exterior doors in the basement** (e.g. "Bilco") Y / N /(NA)

**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? _____

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)

30 People Working.

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

**Is the system active or passive?** NA 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) NOT USED

## 11. OTHER ENVIRONMENTAL HAZARDS OBSERVED

Note factors that may impact vapor mitigation system installation or other construction activities:

**A. Asbestos:** Yes No Suspected * Building Gutted 4 yrs. Ago.

1. Location & Estimated Quantity: None Known

2. General Condition: Good Fair Poor

3. Other Comments: _____

**B: Lead Paint:** Yes No Suspected

1. Location & Estimated Quantity: None Suspected

2. General Condition: Good Fair Poor

3. Other Comments: _____

12. 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.** Include compass orientation or reference to street or front of house.

**Basement:**

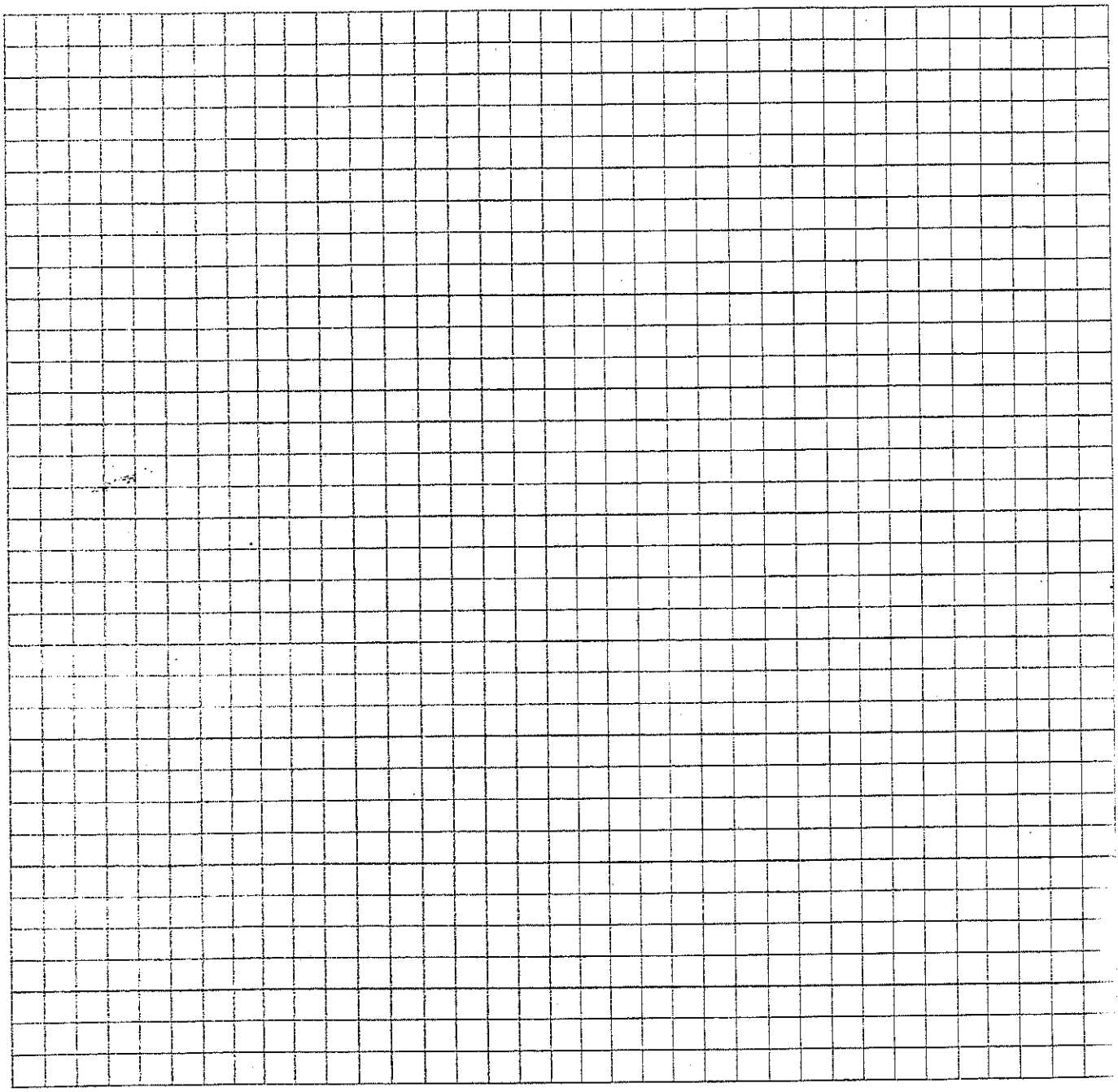
**First Floor:**

See Attached Figures

## 13. 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.**



## 14. PRODUCT INVENTORY FORM



**Make & Model of field instrument used:** ppbRAE

**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 ** |
|---|---|---|---|---|---|---|
| Rm 302 Janitor closet | Quickie Professional Glass Cleaner | Qt | in use | Various, See MSDS's | 86ppb Floor Drain | #6 |
| 11 | | | | | 0ppb off Glass Cleaners | |
| 11 | Enviro-Solutions Dead, Lotion Soap #50 | 1Gal | 11 | | ~7000 | |
| 11 | Enviro-Solutions Lime Remover & Descaler #57 | 1Gal | 11 | | 31ppb | |
| 11 | Swish - Winter Floor Cleaner | 4-½Gals | 11 | | ~9000 | ↓ |
| Copy Room Rm 103 | Sanford EXPO White board Cleaner | 1 Gal | in use, | 2-Butox Ethanol/Acetate Isopropyl Alcohol | 535 | #7 |
| | | | | | | |
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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.

Building 776

# DOLPHIN TECHNOLOGY INC.
# MSDS LISTING

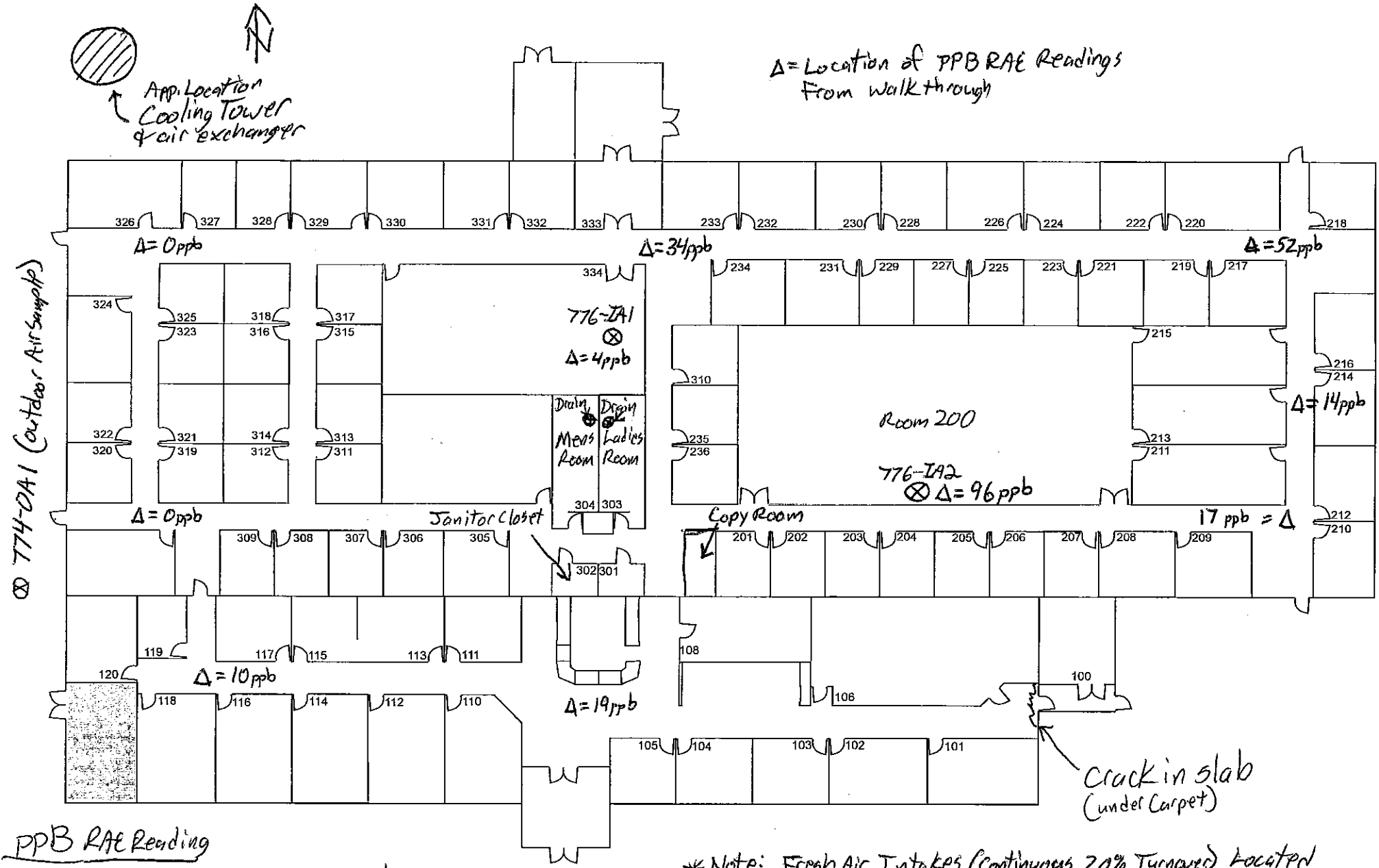
| SHEET # | DESCRIPTION |
|---|---|
| A-1 | ANSUL FE-36 FIRE EXTINGUISHER |
| A-2 | ANSUL FORAY DRY CHEMICAL FIRE EXTINGUISHER |
| C-1 | CLAIRE STAINLESS STEEL POLISH & CLEANER |
| C-2 | CLOROX BLEACH |
| C-3 | CLOROX BLEACH PEN |
| C-4 | COMPUCESSORY CLEANING WIPES |
| D-1 | DAWN LIQUID DISHWASHING DETERGENT |
| D-2 | DURACELL PROCELL ALKALINE BATTERY |
| D-3 | DUST-OFF ANTI-STATIC MONITOR WIPES |
| D-4 | DUST-OFF AIR DUSTER |
| E-1 | ELMER'S GLUE-ALL |
| E-2 | ENDUST FURNITURE POLISH |
| E-3 | ENVIRO-SOLUTIONS NATURAL DISINFECTANT CONCENTRATE #256C |
| E-4 | ENVIRO-SOLUTIONS PAINT STRIPPER & GRAFFITI REMOVER |
| E-5 | 1 Gal ENVIRO-SOLUTIONS DEODORANT LOTION SOAP #50 ~ 0 ppb closed, ≈ 7000 open |
| E-6 | EXPO CLEANER FOR DRY ERASE SURFACES |
| E-7 | 1 Gal ENVIRO-SOLUTIONS LIME REMOVER AND DESCALER #57 ~ 31 ppb |
| E-8 | EXPO DRY ERASE MARKERS |
| G-1 | GLAREKLEEN CLEANING WIPES |
| H-1 | HP INKJET CARTRIDGE 51629 - # 29 |
| H-2 | HP INKJET CARTRIDGE 51645 - # 45 |
| H-3 | HP INKJET CARTRIDGE C6578 - # 78 |
| H-4 | HP INKJET CARTRIDGE C8727A - # 27 |
| H-5 | HP INKJET CARTRIDGE C8728A - # 28 |
| H-6 | HP PRINT CARTRIDGE C4127A/X |
| H-7 | HP PRINT CARTRIDGE C4182X |
| H-8 | HP PRINT CARTRIDGE C8061A/X |
| H-9 | HP PRINT CARTRIDGE C9720A |
| H-10 | HP PRINT CARTRIDGE C9721A |
| H-11 | HP PRINT CARTRIDGE C9722A |
| H-12 | HP PRINT CARTRIDGE C9723A |
| H-13 | HP PRINT CARTRIDGE Q1338A |
| H-14 | HP PRINT CARTRIDGE Q2670A |
| H-15 | HP PRINT CARTRIDGE Q2671A |
| H-16 | HP PRINT CARTRIDGE Q2672A |
| H-17 | HP PRINT CARTRIDGE Q2673A |
| H-18 | HP PRINT CARTRIDGE Q2681A |

Building 776

# DOLPHIN TECHNOLOGY INC.
# MSDS LISTING

| | |
|---|---|
| H-19 | HP PRINT CARTRIDGE Q2682A |
| H-20 | HP PRINT CARTRIDGE Q2683A |
| H-21 | HOOVER BARE FLOOR CLEANER |
| K-1 | KENSINGTON DUSTER II |
| K-2 | KENSINGTON SCREEN GUARDIAN |
| M-1 | MR. CLEAN MAGIC ERASER |
| P-1 | PAPER MATE LIQUID PAPER FAST DRYING CORRECTION FLUID |
| P-2 | PENTEL CORRECTION PEN |
| P-3 | PROPANE |
| P-4 | PAPER MATE LIQUID PAPER ALL PURPOSE CORRECTION PEN |
| R-1 | RESOLVE FABRIC & UPHOLSTERY CLEANER |
| R-2 | RAYOVAC ALKALINE BATTERIES |
| S-1 | SCHULTZ ORCHID FOOD |
| S-2 | SWISH A-323 LEMON OIL FURNITURE POLISH |
| S-3 | SWISH CLEAN-IT COFFEE STAIN REMOVER |
| S-4 | SWISH DEFOAMER |
| S-5 | SWISH DURATION URETHANE FORTIFIED FINISH |
| S-6 | SWISH FULL PRESS NO RINSE STRIPPER CONCENTRATE |
| S-7 | SWISH LIBERTY |
| S-8 | SWISH QUATO 15 |
| S-9 | SWISH SUNBEAM NATURAL CLEANER |
| S-10 | SWISH SPARKLE GLASS CLEANER |
| S-11 | SWISH WINTERINSE FLOOR CLEANER CONCENTRATE |
| S-12 | STAIN EXTINGUSHER FABRIC SPOTTER |
| S-13 | SWISH POWERHOUSE |
| S-14 | STOKO REFRESH MOISTURIZING FOAM SOAP |
| S-15 | SCRUBBING BUBBLES BATHROOM CLEANER |
| S-16 | SWIFFER DUSTER |
| S-17 | SANFORD SHARPIE PERMANENT MARKER |
| U-1 | URINAL SCREENS WITH DEODORIZING BLOCK |
| W-1 | WILSON JONES PAPER SHREDDER OIL |
| W-2 | WINDEX BLUE |

# Building 776




PPB RAE Reading

| | |
|---|---|
| 806 | Rm. 302 Janitor Closet (floor drain) |
| 3,748 | Mens Room drain (floor drain) |
| 121 | Ladies Room drain (floor drain) |

*Note: Fresh Air Intakes (Continuous 20% Turnover) Located @ NW Corner of Building.

CONFIDENTIAL

B785

OSR-3
(EEEPC Revision 2)

# 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 Bob Meyers Date/Time Prepared 12/21/06

Preparer's Affiliation Ecology + Environment Phone No. 716 684-8060

Purpose of Investigation Check Quality of Indoor Air

Property Address: Building 785 @ Apron 2 Former GAFB

Location/Sample ID: 785-IA1, + 785-IA2

**1. OCCUPANT: Interviewed: Y / N**

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Typical Number of Occupants/persons at this location Ø

Approximate Age of Occupants NA

Typical hours of occupancy: From — To —

**2. OWNER OR LANDLORD:** (Check if same as occupant ___ ) **Interviewed:** (Y) / N

Last Name: JERRARD First Name: Cathy ← AFRPA

Address: 153 Brooks Rd. Rome NY

County: Oneida

Home Phone: 315-330-3371 Office Phone: _____

**3. BUILDING CHARACTERISTICS -Type of Building:** (Circle appropriate response)

| | | |
|---|---|---|
| Residential | School | Commercial / Multi-use |
| Industrial | Church | Municipal / (Government) |

Other (Describe): Airplane Hangar

**If multiple units, how many?** —

**If the property is commercial, type?** VACANT. Airplane Hangar

Business Type(s) NONE

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

**Other Building Characteristics:** Not Currently Heated, was steam heated

X Number of floors 1 Primarily w/ 2 Floor Approx. building age _____

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

**4. AIRFLOW**
**Qualitatively describe:**

Airflow between floors

Open doors, No heat, open windows

Airflow near source Source is GW Plume

X Cracks in floor were repaired & painted

Outdoor air infiltration

Building is NOT Air Tight, Can see Light Through GAPS in WALLS / HANGAR Doors.

Infiltration into air ducts

NA, No heating / cooling

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

| | | | | | |
|---|---|---|---|---|---|
| a. **Above grade construction:** | wood frame | concrete | stone | brick | other METAL |
| b. **Basement type:** | full | crawlspace | (slab) | other | |
| c. **Basement floor:** | concrete | dirt | stone | other | |
| d. **Basement floor:** | uncovered | covered | covered with | | |
| e. **Concrete floor:** Were Painted | (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 | | |
| X j. **Sump present?** | Y / (N) | | | | |
| X k. **Water in sump?** | Y / N / (NA) | | | | |
| X l. **Sump covered/sealed?** | Y / N / (NA) | | | | |
| X m. **Floor drains present?** | (Y) / N / NA | Along Front & back door (grate covered trenches) | | | |
| X n. **Perimeter trench drains present?** | (Y) / N / NA | See Photo | | | |
| o. **Indoor cisterns/drywell?** | Y / (N) / NA | | | | |
| p. **Laundry chute to 1st or 2nd Floors?** | Y / N / (NA) | | | | |

**Basement/Lowest level depth below grade:** 0 (feet)

**Identify and describe potential soil vapor entry points and approximate size (e.g., floor cracks, utility ports, floor drains, wall cracks, weeps, or indoor wells)**

X Perimeter Drains - Don't appear to have discharge Point
2 - Monitoring Wells in Building
Cracks (Previously Repaired) in Floor

**Other Comments:** Building Not Currently Occupied or Heated

## 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) Not Currently Heated

| | | | |
|---|---|---|---|
| Hot air circulation | Heat pump | Hot water baseboard | |
| Space Heaters | (Steam radiation) | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other NONE |

Approximate age of heating system(s): Out of Service - WAS Steam

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

| | | |
|---|---|---|
| Natural Gas | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | (Coal) ← historically For STEAM Heat | |

**Domestic hot water tank fueled by:** NA

**Fuel oil storage location/condition/size, if applicable:** NA

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

**Storage wood or coal:** NA Basement Outdoors Main Floor Other _____

**Fireplace(s) located in:** NA Basement Main Floor Other _____

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

**Dehumidification:** (NA) Stand alone unit Located on central air system

**Are there air distribution ducts present?** (Y)/N, But out of Service.

**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.**

System is old / run down & out of Service

**7. OCCUPANCY Is basement/lowest level occupied?** Full-time Occasionally Seldom Almost Never NO

| Level | General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage) |
|---|---|
| Basement | — |
| 1st Floor | VACANT |
| 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, boat) 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? _____

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?** ☐ Basement ☐ First floor Y (N) If yes, where vented? _____

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

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

q. **Basement windows?** Type: Casement Awning Glass block Condition: _____

r. **Are there exterior doors in the basement** (e.g. "Bilco") Y / N (NA)

X **Are there odors in the building?** Y (N)
If yes, please describe: except near used oil drums & paint cans.

**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? NA Y / N

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate NA 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:** NONE Public Water | Drilled Well | Driven Well | Dug Well | Other: _____

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

* Building is VACANT

## 10. RELOCATION INFORMATION (for oil spill residential emergency) NOT USED

## 11. OTHER ENVIRONMENTAL HAZARDS OBSERVED

Note factors that may impact vapor mitigation system installation or other construction activities:

X **A. Asbestos:** Yes No (Suspected)

1. Location & Estimated Quantity: Overhead pipes

2. General Condition: Good Fair Poor

3. Other Comments: _____

**B: Lead Paint:** Yes No (Suspected)

1. Location & Estimated Quantity: Exterior / Interior of Building

2. General Condition: Good Fair (Poor)

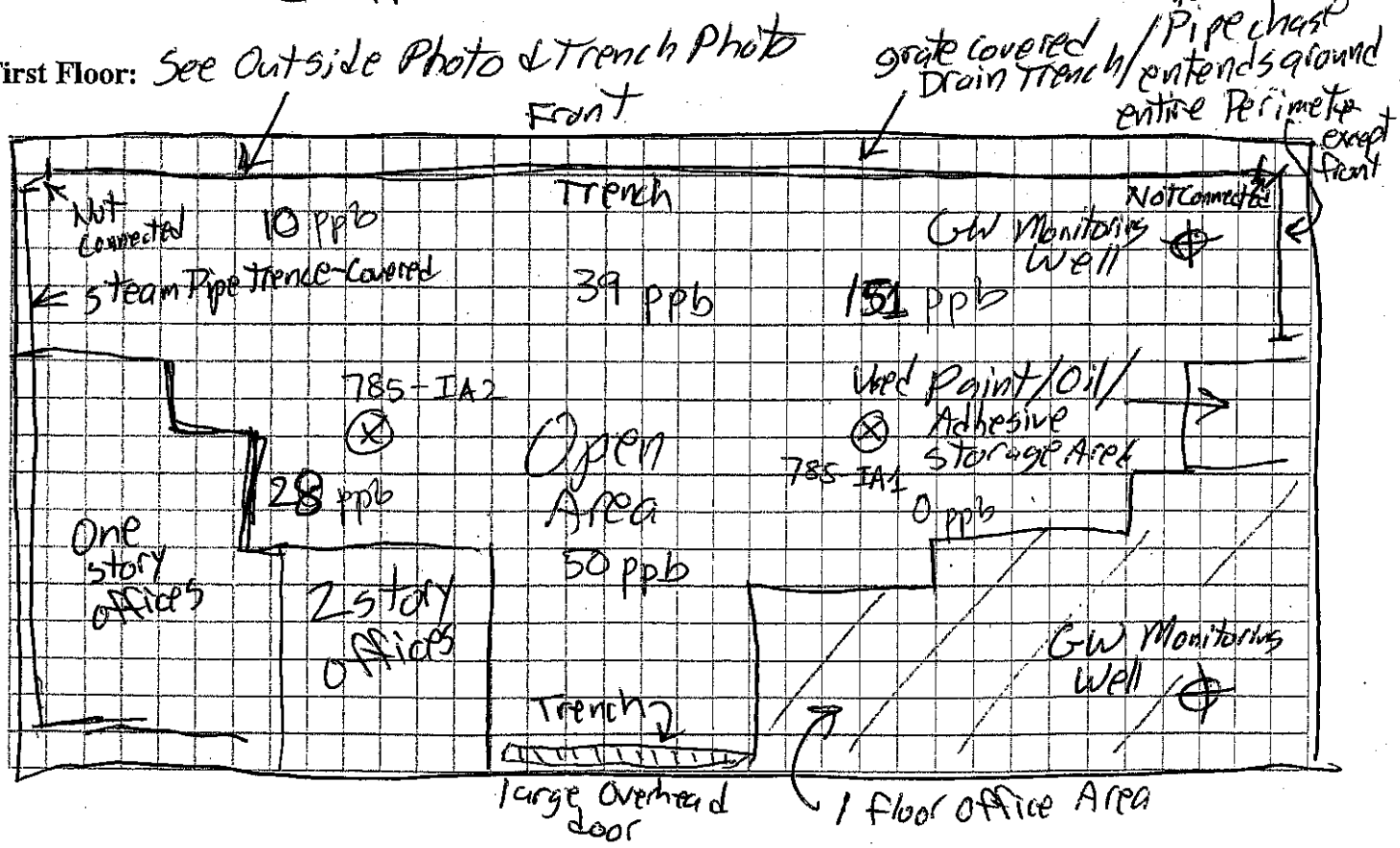
3. Other Comments: _____

12. 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.** Include compass orientation or reference to street or front of house.

**Basement:** NA

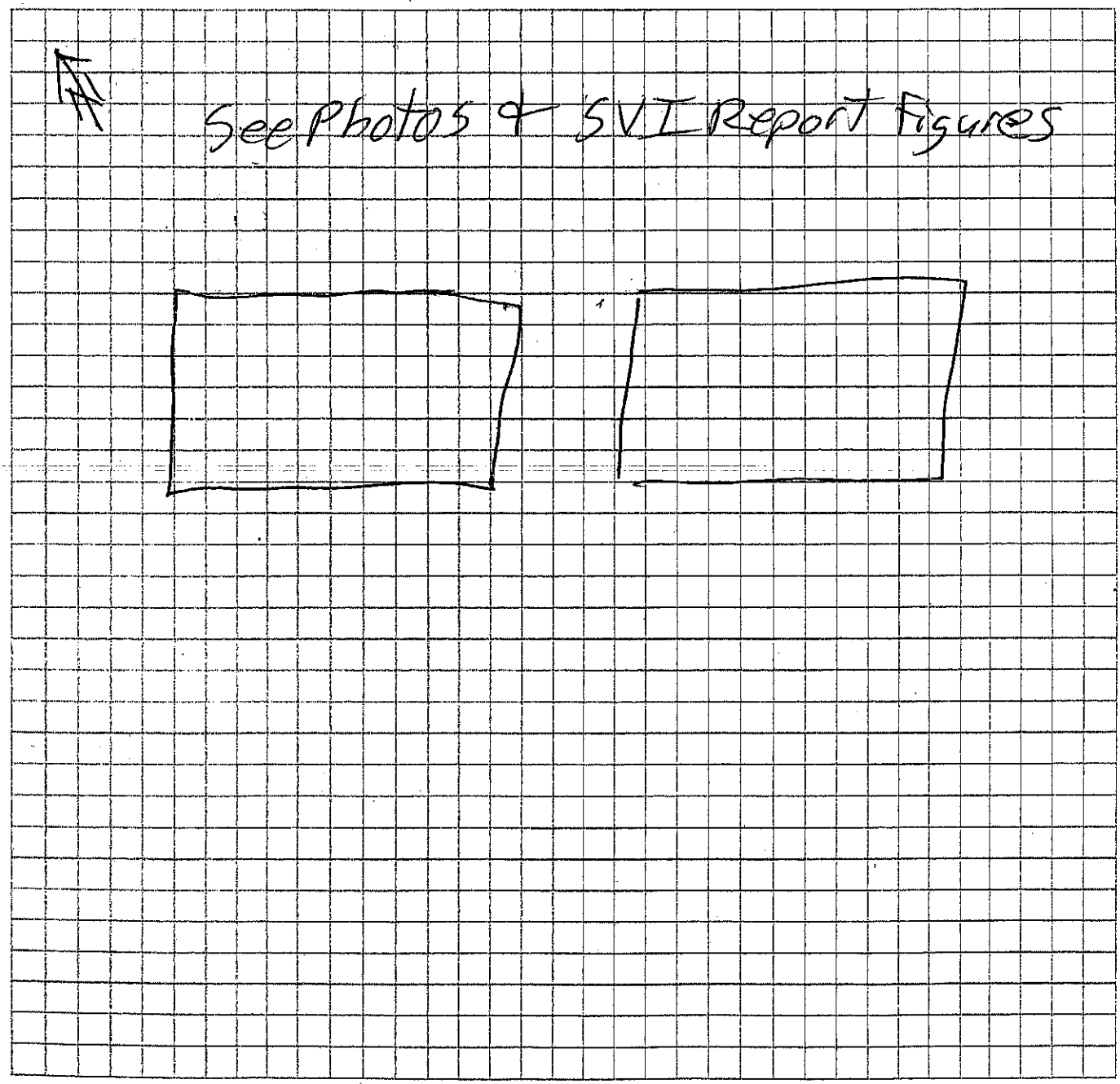
**First Floor:** See Outside Photo & Trench Photo



## 13. 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.**



Confidential

Location ID: B785

## 14. PRODUCT INVENTORY FORM



**Make & Model of field instrument used:** PPbRAE

**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 ** |
|---|---|---|---|---|---|---|
| Main Room | 5-Gallon bucket unknown | 5gal | U | Unknown - 1/3 Full liquid | 87ppb | N |
| " | Empty 55-gallon Plastic Drum - Ashford formula | 55gal | U | Curecrete - Concrete treatment | 0ppb | X |
| " | Motor Oil & Filter | ≈ 1/2Qt | U | Used motor oil Filter and container (oily) for changing oil | 77ppb | X |
| " | Enamel Paint | 1Gal | U | | 0 | Y |
| " | Truco Eterna - Seal Seam Sealer 7141 | 5Gal | U | Petroleum Distillates | 1027ppb | X |
| " | Firestone - Ultraply Bonding Adhesive | 5Gal | U | Acetone, Toluene, Xylene & Techtile Spirits | 27,9ppM | X |
| " | Air Products Surfynol 440 Surfactant | 5Gal | U | Ethoxylated Tetramethyldecynediol (9014-85-1) | 184 | Y |
| " | Hyd. oil | 55gal | U | Hydraulic oil - open | 2450ppb | X |
| " | Motor oil - Used | 55gal | U | Motor Oil | 2799ppb | X |
| " | 55gal drum 1/2 Full used oil Filters | 55gal | U | Used oil Filter open | 50ppb | Y |
| " | 3 drum, 2=55gal 1=35gal | Various | U | used Pigment | 30ppb | N |
| " | Stevens EP Seam cleaner SKU 2036108 | 1gal | U | Xylene | 2934ppb | N |
| " | Dow Corning Antifoam | 55gal | U | Polydimethylsiloxane Glycerides, Sulfuric Acid | 209ppb | N |
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Single Photo

* 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.

OSR – 3
(EEEPC Revision 2)

CONFIDENTIAL
B786

# 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 Bob Meyers Date/Time Prepared 12-20-06/1320

Preparer's Affiliation Ecology & Environment Inc. Phone No. 716-684-8060

Purpose of Investigation Check Quality of Indoor Air

Property Address: Building 786 @ Apron 2 Former GAF13

Location/Sample ID: B776 786-IA1 & 786-IA2 Plus duplicate

**1. OCCUPANT: Interviewed:** Y (N) Vacant Building / Airplane Hangar

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Typical Number of Occupants/persons at this location 0

Approximate Age of Occupants NA

Typical hours of occupancy: From — To —

**2. OWNER OR LANDLORD:** (Check if same as occupant ___ ) **Interviewed:** (Y) N

Last Name: Jerrard First Name: Cathy ← AFRPA

Address: 153 Brooks Rd Rome NY

County: Oneida

Home Phone: 315-330-3371 Office Phone: _____

**3. BUILDING CHARACTERISTICS -Type of Building:** (Circle appropriate response)

| | | |
|---|---|---|
| Residential | School | Commercial / Multi-use |
| Industrial | Church | Municipal / (Government) |

Other (Describe): Airplane Hangar

**If multiple units, how many?** —

**If the property is commercial, type?** Vacant Airplane Hangar

Business Type(s) None

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

**Other Building Characteristics:**

Number of floors 1 Primarily w/2 floor of offices inside Approx. building age _____

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

**4. AIRFLOW**
**Qualitatively describe:**

Airflow between floors Open doors, No heat

Airflow near source Floor in good condition 10-14" Thick Concrete Cracks present but repaired previously

Outdoor air infiltration Building is not air tight, can see light through Gaps in Walls/Hangar doors.

Infiltration into air ducts NA, No heating/cooling.

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

| | | | | | |
|---|---|---|---|---|---|
| a. Above grade construction: | wood frame | concrete | stone | brick | other Metal |
| 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 | | |
| X j. Sump present? | (Y) / N PIPE VAULT | | | | |
| X k. Water in sump? | (Y) / N / NA STEAM PIPE Trench Rusty WATER Disk B #'s 9+10 | | | | |
| l. Sump covered/sealed? | (Y) / N / NA covered by Grate | | | | |
| X m. Floor drains present? | Y / (N) / NA | | | | |
| n. Perimeter trench drains present? | (Y) / N / NA Oil/Water Separator ~40' off front | | | | |
| X o. Indoor cisterns/drywell? | Y / (N) / NA | | | | |
| p. Laundry chute to 1st or 2nd Floors? | Y / N / (NA) | | | | |

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

**Identify and describe potential soil vapor entry points and approximate size (e.g., floor cracks, utility ports, floor drains, wall cracks, weeps, or indoor wells)** ← cracks Photo #42 Disk B

X Some Cracks (Repaired) in Floor, other not repaired. ~ 1' Square hole in floor with 1.5" dia. hose entering/Attached (4 ppb in hole) See Photo Disk A #9.

**Other Comments:**

## 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 None |

Approximate age of heating system(s): Out of Service – Was Steam

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

| | | |
|---|---|---|
| Natural Gas | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | (Coal) ← historically for steam heat | |

**Domestic hot water tank fueled by:** NA

**Fuel oil storage location/condition/size, if applicable:** NA

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

**Storage wood or coal:** NA Basement Outdoors Main Floor Other _____

**Fireplace(s) located in:** NA Basement Main Floor Other _____

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

**Dehumidification:** NA Stand alone unit Located on central air system

**Are there air distribution ducts present?** Y N, But out of Service

**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.**

System is old/run down & Out of Service

**7. OCCUPANCY Is basement/lowest level occupied?** Full-time Occasionally Seldom Almost Never NO

| Level | General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage) |
|---|---|
| Basement | — |
| 1st Floor | Vacant |
| 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, boat) 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? _____

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?** ☐ Basement ☐ First floor Y / (N) If yes, where vented? _____

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

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

q. **Basement windows?** Type: Casement Awning Glass block Condition: NA _____

r. **Are there exterior doors in the basement** (e.g. "Bilco") Y / N / (NA)

X **Are there odors in the building?** (Y) N ~~Gas~~
If yes, please describe: Slight Petroleum _____

**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? NA Y / N

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate NA 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:** None Public Water Drilled Well Driven Well Dug Well Other: _____

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

* Building is Vacant

## 10. RELOCATION INFORMATION (for oil spill residential emergency) NOT USED

## 11. OTHER ENVIRONMENTAL HAZARDS OBSERVED

Note factors that may impact vapor mitigation system installation or other construction activities:

X **A. Asbestos:** Yes No (Suspected)

1. Location & Estimated Quantity: Overhead Pipes 400'

2. General Condition: Good Fair Poor

3. Other Comments: _____

**B: Lead Paint:** Yes No (Suspected)

1. Location & Estimated Quantity: Exterior/Interior of Buildings

2. General Condition: Good Fair (Poor)

3. Other Comments: _____

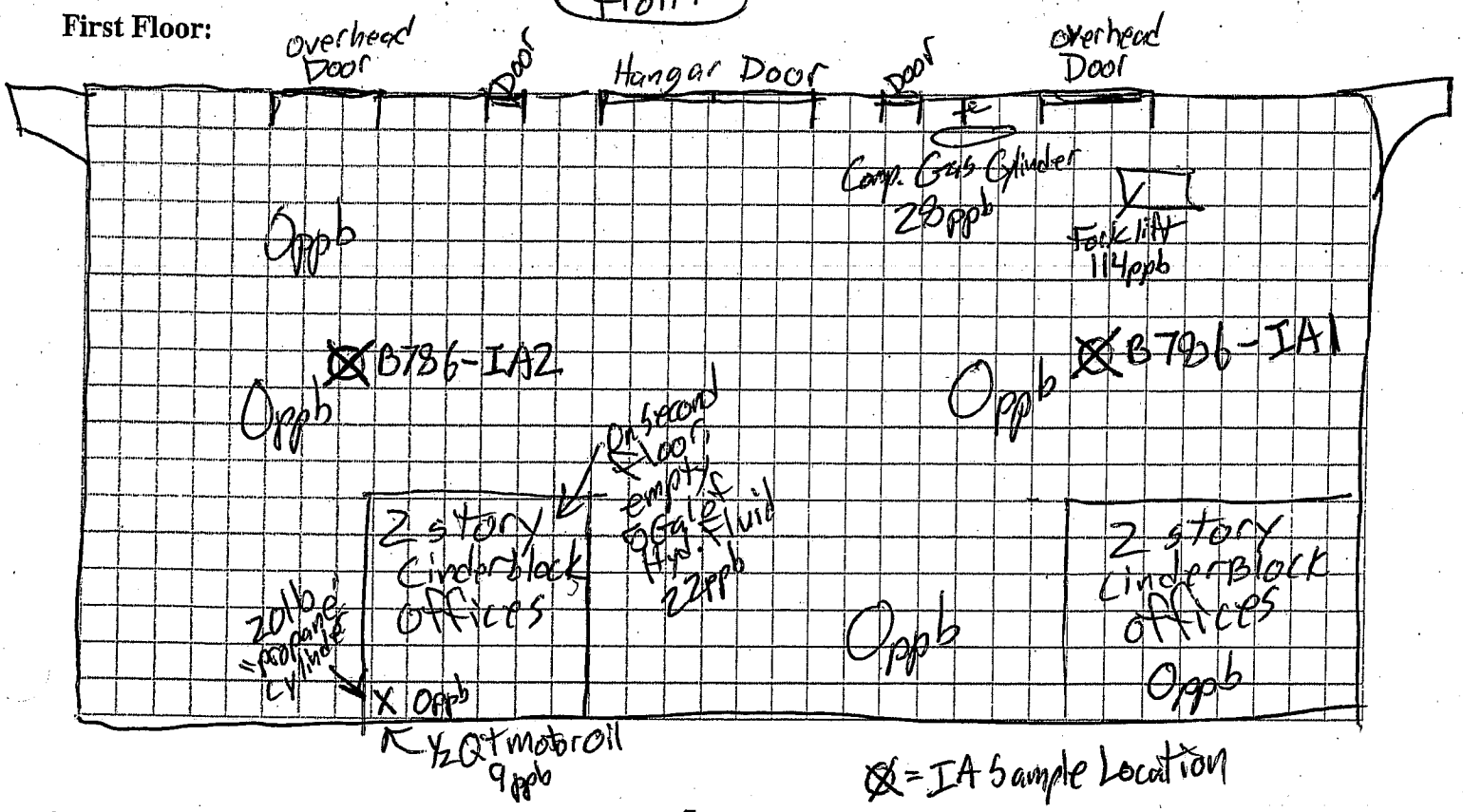
## 12. FLOOR PLANS

**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.** Include compass orientation or reference to street or front of house.

**Basement:** NA

*Note: Oppb during walkthrough Seen, with exceptions Noted below

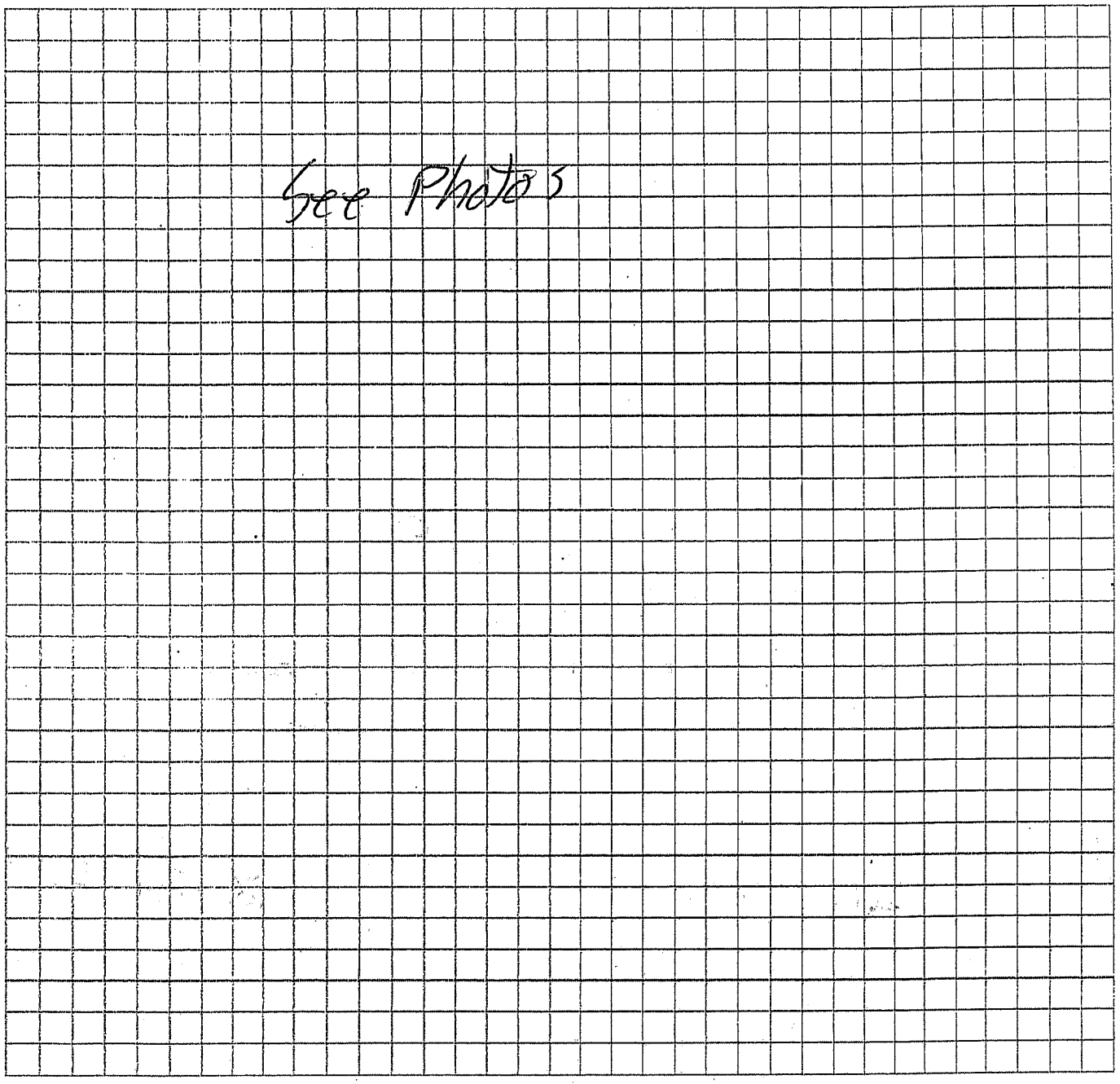
**First Floor:**



## 13. 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.**



## 14. PRODUCT INVENTORY FORM



**Make & Model of field instrument used:** ppbRAE

**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 ** |
|---|---|---|---|---|---|---|
| Front Wall | Compressed Gas Cylinder | 4' | Good | Unknown | 28 | Disk B #3 |
| Front door | Fork lift | – | Good | NA | 114 | – |
| Back door | @ stairway to "Upstairs" 20lb propane Tank | 20lb | Fair | Probable Propane | 0 | – |
| Back door | MotorRoid | 1 qt | ½ Full | 10W-40 NAPA motor oil | 9 | – |
| Upstairs in office | Hydralic Fluid | 5gal | empty | Hydraulic Fluid | 22 | – |
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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.

GSR – 3
(EEEPC Revision 2)

CONFIDENTIAL
B 817

# 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 Bob Meyers Date/Time Prepared 12/21/06 / 0900

Preparer's Affiliation E+E Inc. Phone No. 716 684-8060

Purpose of Investigation Check Indoor Air Quality

Property Address: ~~B~~ Bldg BUDG 817 Former GRIFFISS AFB Rome, NY

Location/Sample ID: BB17 WSA-IA1, WSA-OA1

**1. OCCUPANT: Interviewed:** Y (N) UnOccupied

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Typical Number of Occupants/persons at this location Ø

Approximate Age of Occupants NA

Typical hours of occupancy: From — To —

**2. OWNER OR LANDLORD:** (Check if same as occupant ___ ) **Interviewed:** (Y) / N

Last Name: Jerrard First Name: Cathy ← AFRPA

Address: 153 Brooks Rd Rome NY

County: Oneida

Home Phone: 315-330-337 office Office Phone: _____

**3. BUILDING CHARACTERISTICS -Type of Building:** (Circle appropriate response)

X

| | | |
|---|---|---|
| Residential | School | Commercial / Multi-use |
| Industrial | Church | Municipal (Government) |
| (Other) (Describe): Vacant Building Currently used For storage by various Env. Firms/AFRPA | | |

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

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

Business Type(s) Military Electronics/Communications

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

**Other Building Characteristics:** * Currently Not heated

Number of floors 1 Approx. building age ~55 yrs.

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

**4. AIRFLOW**
**Qualitatively describe:**

Airflow between floors NA

Airflow near source Slab on grade Construction (Source is GW Plume)

Outdoor air infiltration through edges of doors & old windows.

Infiltration into air ducts NA - steam baseboard heat (Currently Not operational) lines run in trenches throughout Floor of Building (See Photo)

Confidential

Location ID: B817

*Slab on grade Construction

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

| | | | | | |
|---|---|---|---|---|---|
| a. **Above grade construction:** | (wood frame) | concrete | stone | (brick) | other _____ |
| b. **Basement type:** | full | crawlspace | (slab) | other _____ | |
| c. **Basement floor:** | concrete | dirt | stone | other _____ | |
| d. **Basement floor:** | uncovered | covered | covered with _____ | | |
| e. **Concrete floor:** Good Condition | (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) / NA | | | | |
| l. **Sump covered/sealed?** | (Y) / N / NA Covered with "open" metal grate | | | | |
| m. **Floor drains present?** | (Y) / N / NA In Both bathrooms & Janitor Closet | | | | |
| n. **Perimeter trench drains present?** | Y / (N) / NA | | | | |
| o. **Indoor ~~cisterns/drywell~~?** Vault | (Y) / N / NA large (~6'x8'x8'deep) dry w/sump in Corner | | | | |
| p. **Laundry chute to 1st or 2nd Floors?** | Y / N / (NA) | | | | |

**Basement/Lowest level depth below grade:** 0 (feet) except electrical Vault

**Identify and describe potential soil vapor entry points and approximate size (e.g., floor cracks, utility ports, floor drains, wall cracks, weeps, or indoor wells)** 3 Floor drains (Both bathrooms & Janitor closet) all read 0ppb w/PPb RAE

*Electrical Vault w/Sump, Floor/Slab in good condition

**Other Comments:** _____

## 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) Not Currently operational

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

Approximate age of heating system(s): ~55yrs.

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

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

Not @ B817 Base has steam plant, and steam is piped in.

**Domestic hot water tank fueled by:** NA

**Fuel oil storage location/condition/size, if applicable:** NA

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

**Storage wood or coal:** Basement Outdoors Main Floor Coal Other @ Steam Plant

**Fireplace(s) located in:** Basement Main Floor Other _____

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

**Dehumidification:** NA Stand alone unit Located on central air system

**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.**

NA

**7. OCCUPANCY Is basement/lowest level occupied?** NA Full-time Occasionally Seldom ~~Almost~~ Never

| Level | General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage) |
|---|---|
| Basement | NA |
| 1st Floor | UnOccupied - Currently Used for storage |
| 2nd Floor | NA |
| 3rd Floor | NA |
| 4th Floor | NA |

**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, boat) (Y) / N / NA Please specify Occasionally - Generators

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? _____

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?** NA ☐ Basement ☐ First floor Y / N If yes, where vented? _____

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

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

q. **Basement windows?** NA Type: Casement Awning Glass block Condition: _____

r. **Are there exterior doors in the basement** (e.g. "Bilco") Y / N (NA)

**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? NA

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

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response) No Occupants

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?** NA 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) NOT USED

## 11. OTHER ENVIRONMENTAL HAZARDS OBSERVED

Note factors that may impact vapor mitigation system installation or other construction activities:

**A. Asbestos:** Yes No Suspected (Unknown)

1. Location & Estimated Quantity: Insulated Pipes in building

2. General Condition: Good (Fair) Poor

3. Other Comments: _____

**B: Lead Paint:** Yes No Suspected (Unknown)

1. Location & Estimated Quantity: Possibly exterior Paint on doors

2. General Condition: Good (Fair) Poor

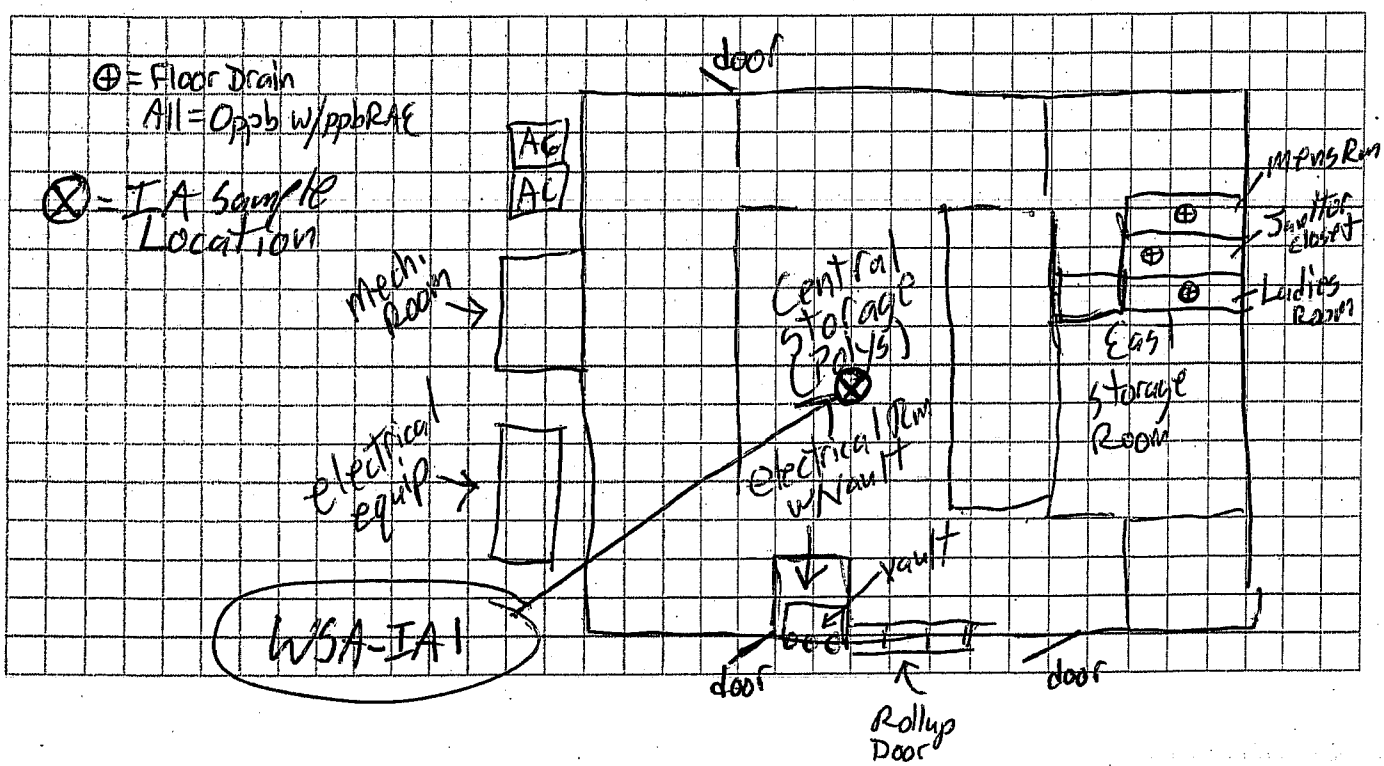
3. Other Comments: _____

## 12. 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.** Include compass orientation or reference to street or front of house.

**Basement:** NA

**First Floor:**

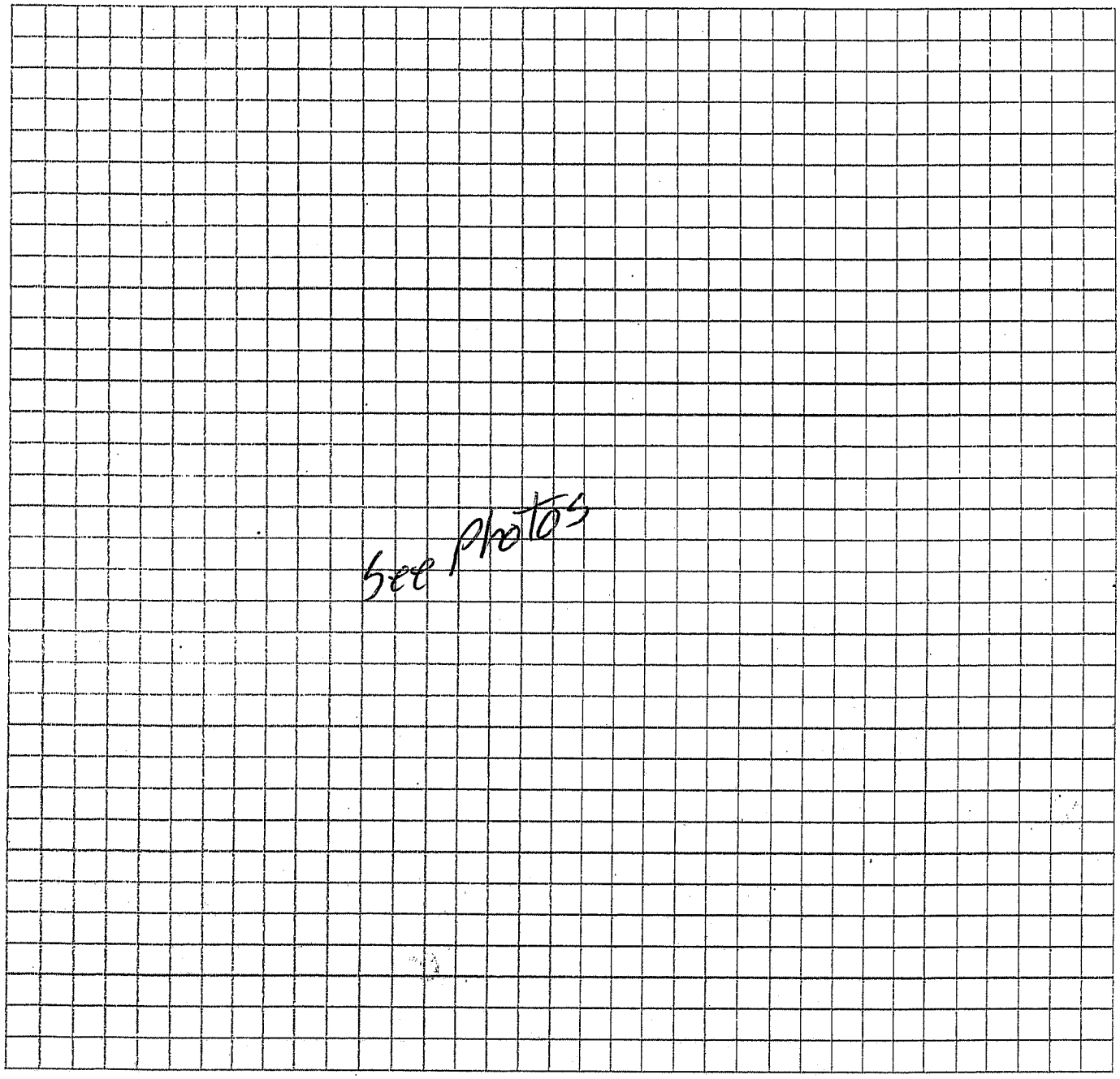


## 13. OUTDOOR PLOT

**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.**

* See Photos



Confidential

Location ID: B817



## 14. PRODUCT INVENTORY FORM

**Make & Model of field instrument used:** PPbRAE

**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 ** |
|---|---|---|---|---|---|---|
| Scattered Throughout | pH/Conductivity | 1oz to 8oz | U | ≈No Volatiles | Oppb | ~~N~~ |
| | Calibration Solutions | | | | | |
| East Side Storage Rm | Fire Extinguishes | Various | UO (cold) | ≈19 of Various Sizes | Oppb | N |
| | ~~Water Quality Test~~ | Various | U | LaMotte Combination | Oppb | Y |
| | ~~Kit~~ Containing: | | | Soil Kit Model STH-14 Containing Reagents, Acids, Bases | | Disk F Photo #7 |
| | Universal Extracting Solution | 250mL | U | Acetic Acid Sodium Acetate (3 ≈ ½ Full each) | Oppb | |
| | Bedrock Core Samples | — | — | — | Oppb | Y |
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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.

# D

# Air Sample Forms

ecology and environment engineering, p.c.
International Specialists in the Environment
BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844

# Soil Gas Sampling Data Collection Form

| Site Name: Former Griffiss Air Force Base | Project No.: 002275.PT04.09 |
|---|---|

**Sample Location Information**

Project Location: Rome, NY

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Brian Cervi, Jim Mayo

Organic Vapor Meter Used: ☒ PID ☑ FID Model: TVA-1000 (#R7922)

Helium Detector Used: MGD-2002 Multigas Meter (#R7237)

| Sample ID | | AOC9-SV03 | AOC9-SV04 | AOC9-SV05 | AOC9-SV06 | AOC9-SV02 | AOC9-SV01 |
|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | | 8' | 8' | 8' | 4' | 8' | 8' |
| Canister No. | | ~~2732~~ ~~6756~~ BC | 2567 | 3543 | 3473 | 2901 | 3635 |
| Regulator No. | | 3766 | 2796 | 4195 | 2916 | 4007 | 3103 |
| Start He conc. in pail (ppm) | | 41.8% | 45.7% | 45.2% | 43.5% | 44.9% | 41.2% |
| Max. He conc. in sample (ppm) | | 0 ppm | 0 ppm | 0 ppm | 0 ppm | 0 ppm | 0 ppm |
| Final He conc. in pail (ppm) | | 40.7% | 45.2% | 43.9% | 42.6% | 43.4% | 40.1% |
| OVM (ppm) | | 0.3 ppm | 0.2 ppm | 0.1 ppm | 0.1 ppm | 1.2 ppm | 0.1 ppm |
| Purge Vol. (L) | | 1L | 1L | 1L | 1L | 1L | 1L |
| Duration (hours) | | 1hr | 1hr | 1hr | 1hr | 1hr | 1hr |
| Start | Date | 10/18/06 | 10/18/06 | 10/18/06 | 10/18/06 | 10/18/06 | 10/18/06 |
| | Time | 1031 | ~~1129~~ 1252 BC | 1240 | 1605 | 1654 | 1730 |
| | Pressure | -30 | -29 | -29.5 | -30 | -29.5 | -29.5 |
| End | Date | 10/18/06 | 10/18/06 | 10/18/06 | 10/18/06 | 10/18/06 | 10/18/06 |
| | Time | 1140 | 1348 | 1342 | 1701 | 1834 | 1831 |
| | Pressure | -3 | -2.5 | -1.0 | -2.0 | -9 | -4 |
| Quality Control | | | | | | | |
| Analysis Method | | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 |

| Laboratory: STL | Date Shipped to Lab: 10/20/06 |
|---|---|
| Associated Trip Blank Sample ID: TB-20-10-06 | |
| Comments: | |

Key: bgs = below ground surface; FID = flame-ionization detector; ft = feet; He = Helium; OVM = organic vapor meter; PID = photo-ionization detector; ppb = parts per billion; ppm = parts per million

Canister pressure measured in inches of mercury, gauge (in Hg)

**ecology and environment engineering, p.c.**
International Specialists in the Environment
BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844

# Soil Gas Sampling Data Collection Form

| Site Name: | Former Griffiss Air Force Base | Project No.: | 002275.PT04.09 |
|---|---|---|---|

**Sample Location Information**

Project Location: Rome, NY

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Brian Cerri, Jim Mays

Organic Vapor Meter Used: ☒ PID ☒ FID Model: TVA-1000 (# R7922)

Helium Detector Used: MGD-2002 Multigas Meter (# R7237)

| Sample ID | WSA-SV-01 | WSA-SV-04 | WSA-SV-04/D | 775-SV-04 | 775-SV-04/D | 775-SV-01 |
|---|---|---|---|---|---|---|
| Depth (ft bgs) | 4' | 4' | 4' | 8' | 8' | 8' |
| Canister No. | 2855 | 3006 | 2884 | ~~3333~~ 2751 | 4001 | 3886 |
| Regulator No. | 3978 | 4193 | 3062 | 3753 | 3613 | 4192 |
| Start He conc. in pail (ppm) | 42.8% | 38.3% | 38.3% | 39.8% | 39.8% | 42.4% |
| Max. He conc. in sample (ppm) | 0ppm | 0ppm | 0ppm | 0ppm | 0ppm | 0ppm |
| Final He conc. in pail (ppm) | 41.8% | 36.9% | 36.9% | 38.9% | 38.9% | 40.7 |
| OVM (ppm) | 0.1ppm | 0.1ppm | 0.1ppm | 1.1ppm | 1.1ppm | |
| Purge Vol. (L) | 1L | 1L | 1L | 1L | 1L | 1L |
| Duration (hours) | 1hr | 1hr | 1hr | 1hr | 1hr | 1hr |
| Start Date | 10/19/06 | 10/19/06 | 10/19/06 | 10/19/06 | 10/19/06 | 10/19/06 |
| Start Time | 0952 | 1140 | 1140 | 1506 | 1506 | 1539 |
| Start Pressure | -30 | -30 | -28 | -29 | -30 | -28.5 |
| End Date | 10/19/06 | 10/19/06 | 10/19/06 | 10/19/06 | 10/19/06 | 10/19/06 |
| End Time | No Sample | No Sample | No Sample | 1619 | 1619 | 1636 |
| End Pressure | | | | -3 | -4 | -3 |
| Quality Control | | | | | Dup | |
| Analysis Method | TO-15 | TO-15 | TO-15 | TO-15 | TO15 | TO-15 |

Laboratory: STL Date Shipped to Lab: 10/20/06

Associated Trip Blank Sample ID: TB-20-10-06

Comments: We were unable to collect the WSA-SV-01 sample at 4' bgs because water was being sucked into the sample tube. We were also unable to collect a sample from WSA-SV-04 due to water being sucked into the tube (both at 3'-3.5' and 4' depths).

Key: bgs = below ground surface; FID = flame-ionization detector; ft = feet; He = Helium; OVM = organic vapor meter; PID = photo-ionization detector; ppb = parts per billion; ppm = parts per million; Canister pressure measured in inches of mercury, gauge (in Hg)

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# Soil Gas Sampling Data Collection Form

| Site Name: Former Griffiss Air Force Base | Project No.: 002275.PT04.09 |
|---|---|

**Sample Location Information**

Project Location: Rome, NY

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Brian Cervi, Jim Mays

Organic Vapor Meter Used: ☒ PID ☒ FID Model: TVA-1000 (# R7922)

Helium Detector Used: MGD-2002 Multigas Meter (# R7237)

| Sample ID | | 775-SV-03 | 775-SV-02 | TB-20-10-06 | | | |
|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | | 8' | 8' | NA | | | |
| Canister No. | | 3874 | 3000 | 2546 | | | |
| Regulator No. | | 4051 | 4189 | NA | | | |
| Start He conc. in pail (ppm) | | 40.9% | 44.1% | NA | | | |
| Max. He conc. in sample (ppm) | | 0ppm | 0ppm | NA | | | |
| Final He conc. in pail (ppm) | | 403 | 41.2% | NA | | | |
| OVM (ppm) | | 0.3ppm | 0.2ppm | NA | | | |
| Purge Vol. (L) | | 1L | 1L | ~~1L~~ NA | 1L | 1L | 1L |
| Duration (hours) | | 1hr | 1hr | ~~1hr~~ NA | 1hr | 1hr | .1hr |
| Start | Date | 10/19/06 | 10/20/06 | NA | | | |
| | Time | 1626 | 0749 | NA | | | |
| | Pressure | -30 | -29 | NA | | | |
| End | Date | 10/19/06 | 10/20/06 | NA | | | |
| | Time | 1741 | 0832 | NA | | | |
| | Pressure | -6 | -1 | NA | | | |
| Quality Control | | | | Trip Blank | | | |
| Analysis Method | | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 |

| Laboratory: STL | Date Shipped to Lab: 10/20/06 |
|---|---|
| Associated Trip Blank Sample ID: TB-20-10-06 | |
| Comments: | |

Key: bgs = below ground surface; FID = flame-ionization detector; ft = feet; He = Helium; OVM = organic vapor meter; PID = photo-ionization detector; ppb = parts per billion; ppm = parts per million

Canister pressure measured in inches of mercury, gauge (in Hg)

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# Soil Vapor Sampling Data Collection Form

| Site Name: | Former Griffiss Air Force Base | Project No.: | 002275.PT04.09 |
|---|---|---|---|

**Sample Location Information**

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Larry Roedl / Alec Humann

Organic Vapor Meter Used: ☒ PID ☐ FID Model: Mini Rae 2000 110-005047

Helium Detector Used: Not used during indoor sampling

| Sample ID | | WSA-SSV1 | WSA-SSV1/D | WSA-SSV1/S | B785-SSV1 | B785-SSV2 | B784-SSV1 | B784-SSV2 |
|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | | 9.0" | 9.0" | 9.0" | 16.0" | 15.5" | 14.0" | 14.5" |
| Canister No. | | 2747 | 2593 | 1009 | 2961 | 3645 | 3428 | 2956 |
| Regulator No. | | 3821 | 3859 | K093 | 3776 | 3363 | 4207 | 4202 |
| Start He conc. In pail (ppm) | | — | — | — | — | — | — | — |
| ~~Final He conc. In pail (ppm)~~ PID reading | | 1.4 ppm | 1.4 ppm | 1.4 ppm | 1.3 ppm | 0.6 ppm | 0.3 ppm | 0.8 ppm |
| Purge Vol. (L) | | 60 m/s. | 60 m/s. | 60 m/s. | 60 m/s. | 60 m/s. | 60 m/s. | 60 m/s. |
| Duration (hours) | | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Start | Date | 10/24/06 | 10/24/06 | 10/24/06 | 10/24/06 | 10/24/06 | 10/24/06 | 10/24/06 |
| | Time | 1021 | 1021 | 1021 | 1147 | 1219 | 1240 | 1250 |
| | Pressure | -29 | -30 | -29 | -30 | -30 | -30 | -29 |
| End | Date | 10/24/06 | 10/24/06 | 10/24/06 | 10/24/06 | 10/24/06 | 10/24/06 | 10/24/06 |
| | Time | 1820 | 1820 | 1820 | 1940 | 2015 | 2032 | 2046 |
| | Pressure | -02 | -03 | -02 | -01 | -01 | -02 | -01 |
| Quality Control | | Orig | Duplicate | Split | Orig | Orig | Orig | Orig |
| Analysis Method | | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 |

Laboratory: STL Colchester, VT — Date Shipped to Lab: 10/26/06

Associated Trip Blank Sample ID:

Comments:

Key: bgs = below ground surface; FID = flame-ionization detector; ft = feet; He = Helium; OVM = organic vapor meter; PID = photo-ionization detector; ppb = parts per billion

Canister pressure measured in inches of mercury, gauge (in Hg)

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# Soil Vapor Sampling Data Collection Form

| Site Name: | Former Griffiss Air Force Base | Project No.: | 002275.PT04.09 |
|---|---|---|---|

**Sample Location Information**

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Larry Roedl / Alec Humann

Organic Vapor Meter Used: ☒ PID ☐ FID Model: MiniRae 2000 110-005047

Helium Detector Used: Not used during indoor sampling

| Sample ID | | OBGWV-TB1 | B786-SSV1 | B786-SSV1/S | B786-SSV2 | B786-SSV2/D | B783-SSV1 | B783-SSV2 |
|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | | — | 15.5" | 15.5" | 16.0" | 16.0" | 17.0" | 17.5" |
| Canister No. | | 2883 | 2858 | 0120 | 3233 | 4138 | 2514 | 3761 |
| Regulator No. | | — | 3754 | K220 | 3607 | 2995 | 2832 | 3238 |
| Start He conc. In pail (ppm) | | — | — | — | — | — | — | — |
| ~~Final He conc. In pail (ppm)~~ PID reading | | — | 0.1 ppm | 0.1 ppm | 0 ppm | 0 ppm | 0.1 ppm | 0.1 ppm |
| Purge Vol. (L) | | — | 60 mls | 60 mls | 60 mls | 60 mls | 60 mls | 60 mls |
| Duration (hours) | | — | 8 | 8 | 8 | 8 | 8 | 8 |
| Start | Date | 10/24/06 | 10/25/06 | 10/25/06 | 10/25/06 | 10/25/06 | 10/25/06 | 10/25/06 |
| | Time | 1527 | 0812 | 0812 | 0832 | 0832 | 0855 | 0910 |
| | Pressure | -30.2 | -30 | -30 | -30 | -30 | -30 | -28 |
| End | Date | — | 10/25/06 | 10/25/06 | 10/25/06 | 10/25/06 | 10/25/06 | 10/25/06 |
| | Time | — | 1610 | 1610 | 1629 | 1629 | 1652 | 1709 |
| | Pressure | — | -01 | -01 | -02 | -01 | -02 | -01 |
| Quality Control | | Trip Blank | Orig | Split | Orig | Dupe | Orig | Orig |
| Analysis Method | | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 |

| Laboratory: | STL Colchester, VT | Date Shipped to Lab: | 10/26/06 |
|---|---|---|---|

Associated Trip Blank Sample ID: OBGWV-TB1

Comments:

Key: bgs = below ground surface; FID = flame-ionization detector; ft = feet; He = Helium; OVM = organic vapor meter; PID = photo-ionization detector; ppb = parts per billion

Canister pressure measured in inches of mercury, gauge (in Hg)

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# Soil Vapor Sampling Data Collection Form

| Site Name: | Former Griffiss Air Force Base | Project No.: | 002275.PT04.09 |
|---|---|---|---|

**Sample Location Information**

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Larry Roedl / Alec Humann

Organic Vapor Meter Used: ☒ PID ☐ FID Model: MiniRae 2000 110-005047

Helium Detector Used: Not used during indoor sampling

| Sample ID | | B782-SSV1 | B782-SSV1/D | B782-SSV2 | B782-SSV2/S | GAFB-TB-102606 | 774-SSV1 | 774-SSV2 |
|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | | 17.0" | 17.0" | 17.0" | 17.0" | — | 10.0" | 10.0" |
| Canister No. | | 3282 | 3413 | 3550 | 1495 | 1520 | 3272 | 3276 |
| Regulator No. | | 3133 | 3985 | 3747 | K133 | — | 3027 | 2997 |
| Start He conc. In pail (ppm) | | — | — | — | — | — | — | — |
| ~~Final He conc. In pail (ppm)~~ PID reading | | 0.8 ppm | 0.8 ppm | 0.3 ppm | 0.3 ppm | — | 0.1 ppm | 1.0 ppm |
| Purge Vol. (L) | | 60 mls. | 60 mls. | 60 mls. | 60 mls. | — | 60 mls. | 60 mls. |
| Duration (hours) | | 8 | 8 | 8 | 8 | — | 8 | 8 |
| Start | Date | 10/25/06 | 10/25/06 | 10/25/06 | 10/25/06 | 10/26/06 | 10/26/06 | 10/26/06 |
| | Time | 0944 | 0944 | 1003 | 1003 | 0800 | 0858 | 0918 |
| | Pressure | -30 | -30 | -30 | -30 | -30 | -30 | -30 |
| End | Date | 10/25/06 | 10/25/06 | 10/25/06 | 10/25/06 | — | 10/26/06 | 10/26/06 |
| | Time | 1741 | 1741 | 1800 | 1800 | — | 1655 | 1716 |
| | Pressure | -02 | -02 | -01 | -02 | — | -01 | -04 |
| Quality Control | | Orig | Dupe | Orig | Split | USACE Trip Blank | Orig | Orig |
| Analysis Method | | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 |

Laboratory: STL Colchester, VT — Date Shipped to Lab: 10/26/06

Associated Trip Blank Sample ID:

Comments:

Key: bgs = below ground surface; FID = flame-ionization detector; ft = feet; He = Helium; OVM = organic vapor meter; PID = photo-ionization detector; ppb = parts per billion

Canister pressure measured in inches of mercury, gauge (in Hg)

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# Soil Vapor Sampling Data Collection Form

| Site Name: | Former Griffiss Air Force Base | Project No.: | 002275.PT04.09 |
|---|---|---|---|

**Sample Location Information**

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Larry Roedl / Alec Humann

Organic Vapor Meter Used: ☒ PID ☐ FID Model: MiniRae 2000 110-005041

Helium Detector Used: Not used during indoor sampling

| Sample ID | | 776-SSV1 | 776-SSV2 | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | | 5.0" | 8.5" | | | | | |
| Canister No. | | 4892 | 2659 | | | | | |
| Regulator No. | | 2614 | 3850 | | | | | |
| Start He conc. In pail (ppm) | | — | — | | | | | |
| ~~Final He conc. In pail (ppm)~~ PID reading | | 2.1 ppm | 2.0 ppm | | | | | |
| Purge Vol. (L) | | 60 mls. | 60 mls. | | | | | |
| Duration (hours) | | 8 | 8 | | | | | |
| Start | Date | 10/26/06 | 10/26/06 | | | | | |
| | Time | 0940 | 0957 | | | | | |
| | Pressure | -30 | -29 | | | | | |
| End | Date | 10/26/06 | 10/26/06 | | | | | |
| | Time | 1737 | 1755 | | | | | |
| | Pressure | -01 | -02 | | | | | |
| Quality Control | | Orig | Orig | | | | | |
| Analysis Method | | TO-15 | TO-15 | | | | | |

Laboratory: STL Colchester, VT — Date Shipped to Lab: 10/26/06

Associated Trip Blank Sample ID:

Comments:

Key: bgs = below ground surface; FID = flame-ionization detector; ft = feet; He = Helium; OVM = organic vapor meter; PID = photo-ionization detector; ppb = parts per billion

Canister pressure measured in inches of mercury, gauge (in Hg)

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## Soil Vapor Sampling Data Collection Form

| Site Name: | Former Griffiss Air Force Base | Project No.: | 002275.PT04.09 |
|---|---|---|---|

**Sample Location Information**

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Bob Myers, Jim Mays

Organic Vapor Meter Used: [X] PID [X] FID Model: TVPPB RAE Monitor

Helium Detector Used:

| Sample ID | | WSA-IA1 | WSA-OA1 | OBGWV-TB3 | 786-IA1 | 786-IA2 | 786-IA2D | 786-OA1 |
|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | | | | | | | | |
| Canister No. | | 3033 | 2670 | 2602 | 2961 | 4166 | 2593 | 4324 |
| Regulator No. | | 2731 | 3123 | — | 2811 | 3075 | 2836 | 3993 |
| Start He conc. In pail (ppm) | | — | — | — | — | — | — | — |
| Final He conc. In pail (ppm) | | — | — | — | — | — | — | — |
| Purge Vol. (L) | | — | — | — | — | — | — | — |
| Duration (hours) | | — | — | — | — | — | — | — |
| Start | Date | 12/20/06 | 12/20/06 | — | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 |
| | Time | 1024 | 1027 | — | 0819 | 0820 | 0820 | 0826 |
| | Pressure | -30 | -30 | -29.8 | -30 | -30 | -28 | -30 |
| End | Date | 12/20/06 | 12/20/06 | — | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 |
| | Time | 1824 | 1827 | — | 1619 | 1620 | 1620 | 1626 |
| | Pressure | -10 | -6 | — | -4 | -5.9 | -12.5 | -2.0 |
| Quality Control | | | | | | | | |
| Analysis Method | | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 |

| Laboratory: | STL-Burlington | Date Shipped to Lab: | 12/20/06 |
|---|---|---|---|

Associated Trip Blank Sample ID:

Comments:

Key: bgs = below ground surface; FID = flame-ionization detector; ft = feet; He = Helium; OVM = organic vapor meter; PID = photo-ionization detector; ppb = parts per billion

Canister pressure measured in inches of mercury, gauge (in Hg)

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# Soil Vapor Sampling Data Collection Form

| Site Name: | Former Griffiss Air Force Base | Project No.: | 002275.PT04.09 |
|---|---|---|---|

**Sample Location Information**

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Bob Meyers, Jim Mays

Organic Vapor Meter Used: ☒ PID ☒ FID Model: PPB RAE Monitor

Helium Detector Used:

| Sample ID | | 785-IA1 | 785-IA2 | 776-IA1 | 776-IA2 | 774-IA1 | 774-IA2 | 774-IA2/D |
|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | | | | | | | | |
| Canister No. | | 3412 | 3144 | 2574 | 3521 | 3885 | 3005 | 2509 |
| Regulator No. | | 2916 | 3936 | 4066 | 3954 | 3180 | 3062 | 3978 |
| Start He conc. In pail (ppm) | | — | — | — | — | — | — | — |
| Final He conc. In pail (ppm) | | — | — | — | — | — | — | — |
| Purge Vol. (L) | | — | — | — | — | — | — | — |
| Duration (hours) | | — | — | — | — | — | — | — |
| Start | Date | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 |
| | Time | 0844 | 0843 | 0909 | 0915 | 0948 | 0950 | 0950 |
| | Pressure | -30 | -30 | -28 | -29.8 | -30 | -29.8 | -30 |
| End | Date | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 | 12/20/06 |
| | Time | 1754 | 1643 | 1709 | 1715 | 1748 | 1750 | 1750 |
| | Pressure | -15 | -3 | -2 | -4 | -4 | -3 | -4 |
| Quality Control | | | | | | | | |
| Analysis Method | | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 | TO-15 |

| Laboratory: | STL - Burlington | Date Shipped to Lab: | 12/20/06 |
|---|---|---|---|

Associated Trip Blank Sample ID:

Comments:

Key: bgs = below ground surface; FID = flame-ionization detector; ft = feet; He = Helium; OVM = organic vapor meter; PID = photo-ionization detector; ppb = parts per billion

Canister pressure measured in inches of mercury, gauge (in Hg)

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# Soil Vapor Sampling Data Collection Form

| Site Name: | Former Griffiss Air Force Base | Project No.: | 002275.PT04.09 |
|---|---|---|---|

**Sample Location Information**

Project Task: Soil Vapor Intrusion Survey

Sampler Names (Print): Bob Meyers, Jim Mays

Organic Vapor Meter Used: ☒ PID ☒ FID Model: TPPB RAE Monitor

Helium Detector Used:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | | 774-OA1 | | | | | | |
| Depth (ft bgs) | | | | | | | | |
| Canister No. | | 4109 | | | | | | |
| Regulator No. | | 3930 | | | | | | |
| Start He conc. In pail (ppm) | | — | | | | | | |
| Final He conc. In pail (ppm) | | — | | | | | | |
| Purge Vol. (L) | | — | | | | | | |
| Duration (hours) | | — | | | | | | |
| Start | Date | 12/20/06 | | | | | | |
| | Time | 1003 | | | | | | |
| | Pressure | -30 | | | | | | |
| End | Date | 12/20/06 | | | | | | |
| | Time | 1746 | | | | | | |
| | Pressure | -5.6 | | | | | | |
| Quality Control | | | | | | | | |
| Analysis Method | | TO-15 | | | | | | |

| Laboratory: | STL-Burlington | Date Shipped to Lab: | 12/20/06 |
|---|---|---|---|

Associated Trip Blank Sample ID:

Comments:

Key:
bgs = below ground surface
FID = flame-ionization detector
ft = feet
He = Helium
OVM = organic vapor meter
PID = photo-ionization detector
ppb = parts per billion

Canister pressure measured in inches of mercury, gauge (in Hg)

# E

# Analytical Data

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-01

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688437

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 1.5 | U | 1.5 | 7.4 | U | 7.4 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.60 | U | 0.60 | 4.2 | U | 4.2 |
| Chloromethane | 74-87-3 | 1.5 | U | 1.5 | 3.1 | U | 3.1 |
| Vinyl Chloride | 75-01-4 | 0.60 | U | 0.60 | 1.5 | U | 1.5 |
| 1,3-Butadiene | 106-99-0 | 4.8 | | 1.5 | 11 | | 3.3 |
| Bromomethane | 74-83-9 | 0.60 | U | 0.60 | 2.3 | U | 2.3 |
| Chloroethane | 75-00-3 | 1.5 | U | 1.5 | 4.0 | U | 4.0 |
| Bromoethene | 593-60-2 | 0.60 | U | 0.60 | 2.6 | U | 2.6 |
| Trichlorofluoromethane | 75-69-4 | 0.60 | U | 0.60 | 3.4 | U | 3.4 |
| Freon TF | 76-13-1 | 0.60 | U | 0.60 | 4.6 | U | 4.6 |
| 1,1-Dichloroethene | 75-35-4 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| Acetone | 67-64-1 | 29 | | 15 | 69 | | 36 |
| Isopropyl Alcohol | 67-63-0 | 15 | U | 15 | 37 | U | 37 |
| Carbon Disulfide | 75-15-0 | 2.1 | | 1.5 | 6.5 | | 4.7 |
| 3-Chloropropene | 107-05-1 | 1.5 | U | 1.5 | 4.7 | U | 4.7 |
| Methylene Chloride | 75-09-2 | 1.5 | U | 1.5 | 5.2 | U | 5.2 |
| tert-Butyl Alcohol | 75-65-0 | 15 | U | 15 | 45 | U | 45 |
| Methyl tert-Butyl Ether | 1634-04-4 | 1.5 | U | 1.5 | 5.4 | U | 5.4 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| n-Hexane | 110-54-3 | 10 | | 1.5 | 35 | | 5.3 |
| 1,1-Dichloroethane | 75-34-3 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| 1,2-Dichloroethene (total) | 540-59-0 | 4.7 | | 0.60 | 19 | | 2.4 |
| Methyl Ethyl Ketone | 78-93-3 | 12 | | 1.5 | 35 | | 4.4 |
| cis-1,2-Dichloroethene | 156-59-2 | 4.7 | | 0.60 | 19 | | 2.4 |
| Tetrahydrofuran | 109-99-9 | 15 | U | 15 | 44 | U | 44 |
| Chloroform | 67-66-3 | 0.60 | U | 0.60 | 2.9 | U | 2.9 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.60 | U | 0.60 | 3.3 | U | 3.3 |
| Cyclohexane | 110-82-7 | 4.4 | | 0.60 | 15 | | 2.1 |
| Carbon Tetrachloride | 56-23-5 | 0.60 | U | 0.60 | 3.8 | U | 3.8 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.60 | U | 0.60 | 2.8 | U | 2.8 |
| Benzene | 71-43-2 | 3.8 | | 0.60 | 12 | | 1.9 |
| 1,2-Dichloroethane | 107-06-2 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| n-Heptane | 142-82-5 | 5.5 | | 0.60 | 23 | | 2.5 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-01

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688437

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 3.1 | | 0.60 | 17 | | 3.2 |
| Methyl Methacrylate | 80-62-6 | 1.5 | U | 1.5 | 6.1 | U | 6.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.60 | U | 0.60 | 2.8 | U | 2.8 |
| 1,4-Dioxane | 123-91-1 | 15 | U | 15 | 54 | U | 54 |
| Bromodichloromethane | 75-27-4 | 0.60 | U | 0.60 | 4.0 | U | 4.0 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.60 | U | 0.60 | 2.7 | U | 2.7 |
| Methyl Isobutyl Ketone | 108-10-1 | 1.5 | U | 1.5 | 6.1 | U | 6.1 |
| Toluene | 108-88-3 | 5.1 | | 0.60 | 19 | | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.60 | U | 0.60 | 2.7 | U | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.60 | U | 0.60 | 3.3 | U | 3.3 |
| Tetrachloroethene | 127-18-4 | 90 | | 0.60 | 610 | | 4.1 |
| Methyl Butyl Ketone | 591-78-6 | 1.5 | U | 1.5 | 6.1 | U | 6.1 |
| Dibromochloromethane | 124-48-1 | 0.60 | U | 0.60 | 5.1 | U | 5.1 |
| 1,2-Dibromoethane | 106-93-4 | 0.60 | U | 0.60 | 4.6 | U | 4.6 |
| Chlorobenzene | 108-90-7 | 0.60 | U | 0.60 | 2.8 | U | 2.8 |
| Ethylbenzene | 100-41-4 | 1.1 | | 0.60 | 4.8 | | 2.6 |
| Xylene (m,p) | 1330-20-7 | 3.2 | | 1.5 | 14 | | 6.5 |
| Xylene (o) | 95-47-6 | 0.90 | | 0.60 | 3.9 | | 2.6 |
| Xylene (total) | 1330-20-7 | 4.1 | | 0.60 | 18 | | 2.6 |
| Styrene | 100-42-5 | 1.7 | | 0.60 | 7.2 | | 2.6 |
| Bromoform | 75-25-2 | 0.60 | U | 0.60 | 6.2 | U | 6.2 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.60 | U | 0.60 | 4.1 | U | 4.1 |
| 4-Ethyltoluene | 622-96-8 | 0.79 | | 0.60 | 3.9 | | 2.9 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.60 | U | 0.60 | 2.9 | U | 2.9 |
| 2-Chlorotoluene | 95-49-8 | 0.60 | U | 0.60 | 3.1 | U | 3.1 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1.1 | | 0.60 | 5.4 | | 2.9 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.60 | U | 0.60 | 3.6 | U | 3.6 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.60 | U | 0.60 | 3.6 | U | 3.6 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.60 | U | 0.60 | 3.6 | U | 3.6 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1.5 | U | 1.5 | 11 | U | 11 |
| Hexachlorobutadiene | 87-68-3 | 0.60 | U | 0.60 | 6.4 | U | 6.4 |
| Naphthalene | 91-20-3 | 1.5 | U | 1.5 | 7.9 | U | 7.9 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-02

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688438

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 1.0 | U | 1.0 | 4.9 | U | 4.9 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.40 | U | 0.40 | 2.8 | U | 2.8 |
| Chloromethane | 74-87-3 | 1.0 | U | 1.0 | 2.1 | U | 2.1 |
| Vinyl Chloride | 75-01-4 | 0.40 | U | 0.40 | 1.0 | U | 1.0 |
| 1,3-Butadiene | 106-99-0 | 2.0 | | 1.0 | 4.4 | | 2.2 |
| Bromomethane | 74-83-9 | 0.40 | U | 0.40 | 1.6 | U | 1.6 |
| Chloroethane | 75-00-3 | 1.0 | U | 1.0 | 2.6 | U | 2.6 |
| Bromoethene | 593-60-2 | 0.40 | U | 0.40 | 1.7 | U | 1.7 |
| Trichlorofluoromethane | 75-69-4 | 0.40 | U | 0.40 | 2.2 | U | 2.2 |
| Freon TF | 76-13-1 | 0.40 | U | 0.40 | 3.1 | U | 3.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.40 | U | 0.40 | 1.6 | U | 1.6 |
| Acetone | 67-64-1 | 20 | | 10 | 48 | | 24 |
| Isopropyl Alcohol | 67-63-0 | 10 | U | 10 | 25 | U | 25 |
| Carbon Disulfide | 75-15-0 | 1.7 | | 1.0 | 5.3 | | 3.1 |
| 3-Chloropropene | 107-05-1 | 1.0 | U | 1.0 | 3.1 | U | 3.1 |
| Methylene Chloride | 75-09-2 | 1.0 | U | 1.0 | 3.5 | U | 3.5 |
| tert-Butyl Alcohol | 75-65-0 | 10 | U | 10 | 30 | U | 30 |
| Methyl tert-Butyl Ether | 1634-04-4 | 1.0 | U | 1.0 | 3.6 | U | 3.6 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.40 | U | 0.40 | 1.6 | U | 1.6 |
| n-Hexane | 110-54-3 | 1.5 | | 1.0 | 5.3 | | 3.5 |
| 1,1-Dichloroethane | 75-34-3 | 0.40 | U | 0.40 | 1.6 | U | 1.6 |
| 1,2-Dichloroethene (total) | 540-59-0 | 3.8 | | 0.40 | 15 | | 1.6 |
| Methyl Ethyl Ketone | 78-93-3 | 6.2 | | 1.0 | 18 | | 2.9 |
| cis-1,2-Dichloroethene | 156-59-2 | 3.8 | | 0.40 | 15 | | 1.6 |
| Tetrahydrofuran | 109-99-9 | 10 | U | 10 | 29 | U | 29 |
| Chloroform | 67-66-3 | 0.40 | U | 0.40 | 2.0 | U | 2.0 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.40 | U | 0.40 | 2.2 | U | 2.2 |
| Cyclohexane | 110-82-7 | 0.40 | U | 0.40 | 1.4 | U | 1.4 |
| Carbon Tetrachloride | 56-23-5 | 0.40 | U | 0.40 | 2.5 | U | 2.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.40 | U | 0.40 | 1.9 | U | 1.9 |
| Benzene | 71-43-2 | 0.54 | | 0.40 | 1.7 | | 1.3 |
| 1,2-Dichloroethane | 107-06-2 | 0.40 | U | 0.40 | 1.6 | U | 1.6 |
| n-Heptane | 142-82-5 | 0.66 | | 0.40 | 2.7 | | 1.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-02

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688438

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 51 | | 0.40 | 270 | | 2.1 |
| Methyl Methacrylate | 80-62-6 | 1.0 | U | 1.0 | 4.1 | U | 4.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.40 | U | 0.40 | 1.8 | U | 1.8 |
| 1,4-Dioxane | 123-91-1 | 10 | U | 10 | 36 | U | 36 |
| Bromodichloromethane | 75-27-4 | 0.40 | U | 0.40 | 2.7 | U | 2.7 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.40 | U | 0.40 | 1.8 | U | 1.8 |
| Methyl Isobutyl Ketone | 108-10-1 | 1.0 | U | 1.0 | 4.1 | U | 4.1 |
| Toluene | 108-88-3 | 3.3 | | 0.40 | 12 | | 1.5 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.40 | U | 0.40 | 1.8 | U | 1.8 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.40 | U | 0.40 | 2.2 | U | 2.2 |
| Tetrachloroethene | 127-18-4 | 25 | | 0.40 | 170 | | 2.7 |
| Methyl Butyl Ketone | 591-78-6 | 1.0 | U | 1.0 | 4.1 | U | 4.1 |
| Dibromochloromethane | 124-48-1 | 0.40 | U | 0.40 | 3.4 | U | 3.4 |
| 1,2-Dibromoethane | 106-93-4 | 0.40 | U | 0.40 | 3.1 | U | 3.1 |
| Chlorobenzene | 108-90-7 | 0.40 | U | 0.40 | 1.8 | U | 1.8 |
| Ethylbenzene | 100-41-4 | 0.69 | | 0.40 | 3.0 | | 1.7 |
| Xylene (m,p) | 1330-20-7 | 2.0 | | 1.0 | 8.7 | | 4.3 |
| Xylene (o) | 95-47-6 | 0.54 | | 0.40 | 2.3 | | 1.7 |
| Xylene (total) | 1330-20-7 | 2.6 | | 0.40 | 11 | | 1.7 |
| Styrene | 100-42-5 | 0.98 | | 0.40 | 4.2 | | 1.7 |
| Bromoform | 75-25-2 | 0.40 | U | 0.40 | 4.1 | U | 4.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.40 | U | 0.40 | 2.7 | U | 2.7 |
| 4-Ethyltoluene | 622-96-8 | 0.40 | U | 0.40 | 2.0 | U | 2.0 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.40 | U | 0.40 | 2.0 | U | 2.0 |
| 2-Chlorotoluene | 95-49-8 | 0.40 | U | 0.40 | 2.1 | U | 2.1 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.55 | | 0.40 | 2.7 | | 2.0 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.40 | U | 0.40 | 2.4 | U | 2.4 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.40 | U | 0.40 | 2.4 | U | 2.4 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.40 | U | 0.40 | 2.4 | U | 2.4 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1.0 | U | 1.0 | 7.4 | U | 7.4 |
| Hexachlorobutadiene | 87-68-3 | 0.40 | U | 0.40 | 4.3 | U | 4.3 |
| Naphthalene | 91-20-3 | 1.0 | U | 1.0 | 5.2 | U | 5.2 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-03

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688439

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results In ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 3.0 | U | 3.0 | 15 | U | 15 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 1.2 | U | 1.2 | 8.4 | U | 8.4 |
| Chloromethane | 74-87-3 | 3.0 | U | 3.0 | 6.2 | U | 6.2 |
| Vinyl Chloride | 75-01-4 | 1.2 | U | 1.2 | 3.1 | U | 3.1 |
| 1,3-Butadiene | 106-99-0 | 3.0 | U | 3.0 | 6.6 | U | 6.6 |
| Bromomethane | 74-83-9 | 1.2 | U | 1.2 | 4.7 | U | 4.7 |
| Chloroethane | 75-00-3 | 3.0 | U | 3.0 | 7.9 | U | 7.9 |
| Bromoethene | 593-60-2 | 1.2 | U | 1.2 | 5.2 | U | 5.2 |
| Trichlorofluoromethane | 75-69-4 | 1.2 | U | 1.2 | 6.7 | U | 6.7 |
| Freon TF | 76-13-1 | 1.2 | U | 1.2 | 9.2 | U | 9.2 |
| 1,1-Dichloroethene | 75-35-4 | 1.2 | U | 1.2 | 4.8 | U | 4.8 |
| Acetone | 67-64-1 | 30 | U | 30 | 71 | U | 71 |
| Isopropyl Alcohol | 67-63-0 | 30 | U | 30 | 74 | U | 74 |
| Carbon Disulfide | 75-15-0 | 3.0 | U | 3.0 | 9.3 | U | 9.3 |
| 3-Chloropropene | 107-05-1 | 3.0 | U | 3.0 | 9.4 | U | 9.4 |
| Methylene Chloride | 75-09-2 | 3.0 | U | 3.0 | 10 | U | 10 |
| tert-Butyl Alcohol | 75-65-0 | 30 | U | 30 | 91 | U | 91 |
| Methyl tert-Butyl Ether | 1634-04-4 | 3.0 | U | 3.0 | 11 | U | 11 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.2 | U | 1.2 | 4.8 | U | 4.8 |
| n-Hexane | 110-54-3 | 3.0 | U | 3.0 | 11 | U | 11 |
| 1,1-Dichloroethane | 75-34-3 | 1.2 | U | 1.2 | 4.9 | U | 4.9 |
| 1,2-Dichloroethene (total) | 540-59-0 | 1.2 | U | 1.2 | 4.8 | U | 4.8 |
| Methyl Ethyl Ketone | 78-93-3 | 16 | | 3.0 | 47 | | 8.8 |
| cis-1,2-Dichloroethene | 156-59-2 | 1.2 | U | 1.2 | 4.8 | U | 4.8 |
| Tetrahydrofuran | 109-99-9 | 30 | U | 30 | 88 | U | 88 |
| Chloroform | 67-66-3 | 1.2 | U | 1.2 | 5.9 | U | 5.9 |
| 1,1,1-Trichloroethane | 71-55-6 | 1.2 | U | 1.2 | 6.5 | U | 6.5 |
| Cyclohexane | 110-82-7 | 1.2 | U | 1.2 | 4.1 | U | 4.1 |
| Carbon Tetrachloride | 56-23-5 | 1.2 | U | 1.2 | 7.5 | U | 7.5 |
| 2,2,4-Trimethylpentane | 540-84-1 | 1.2 | U | 1.2 | 5.6 | U | 5.6 |
| Benzene | 71-43-2 | 1.2 | U | 1.2 | 3.8 | U | 3.8 |
| 1,2-Dichloroethane | 107-06-2 | 1.2 | U | 1.2 | 4.9 | U | 4.9 |
| n-Heptane | 142-82-5 | 1.2 | U | 1.2 | 4.9 | U | 4.9 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-03

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688439

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 150 | | 1.2 | 810 | | 6.4 |
| Methyl Methacrylate | 80-62-6 | 3.0 | U | 3.0 | 12 | U | 12 |
| 1,2-Dichloropropane | 78-87-5 | 1.2 | U | 1.2 | 5.5 | U | 5.5 |
| 1,4-Dioxane | 123-91-1 | 30 | U | 30 | 110 | U | 110 |
| Bromodichloromethane | 75-27-4 | 1.2 | U | 1.2 | 8.0 | U | 8.0 |
| cis-1,3-Dichloropropene | 10061-01-5 | 1.2 | U | 1.2 | 5.4 | U | 5.4 |
| Methyl Isobutyl Ketone | 108-10-1 | 3.0 | U | 3.0 | 12 | U | 12 |
| Toluene | 108-88-3 | 4.1 | | 1.2 | 15 | | 4.5 |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.2 | U | 1.2 | 5.4 | U | 5.4 |
| 1,1,2-Trichloroethane | 79-00-5 | 1.2 | U | 1.2 | 6.5 | U | 6.5 |
| Tetrachloroethene | 127-18-4 | 68 | | 1.2 | 460 | | 8.1 |
| Methyl Butyl Ketone | 591-78-6 | 3.0 | U | 3.0 | 12 | U | 12 |
| Dibromochloromethane | 124-48-1 | 1.2 | U | 1.2 | 10 | U | 10 |
| 1,2-Dibromoethane | 106-93-4 | 1.2 | U | 1.2 | 9.2 | U | 9.2 |
| Chlorobenzene | 108-90-7 | 1.2 | U | 1.2 | 5.5 | U | 5.5 |
| Ethylbenzene | 100-41-4 | 1.2 | U | 1.2 | 5.2 | U | 5.2 |
| Xylene (m,p) | 1330-20-7 | 3.0 | U | 3.0 | 13 | U | 13 |
| Xylene (o) | 95-47-6 | 1.2 | U | 1.2 | 5.2 | U | 5.2 |
| Xylene (total) | 1330-20-7 | 1.2 | U | 1.2 | 5.2 | U | 5.2 |
| Styrene | 100-42-5 | 1.2 | U | 1.2 | 5.1 | U | 5.1 |
| Bromoform | 75-25-2 | 1.2 | U | 1.2 | 12 | U | 12 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1.2 | U | 1.2 | 8.2 | U | 8.2 |
| 4-Ethyltoluene | 622-96-8 | 1.2 | U | 1.2 | 5.9 | U | 5.9 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1.2 | U | 1.2 | 5.9 | U | 5.9 |
| 2-Chlorotoluene | 95-49-8 | 1.2 | U | 1.2 | 6.2 | U | 6.2 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1.2 | U | 1.2 | 5.9 | U | 5.9 |
| 1,3-Dichlorobenzene | 541-73-1 | 1.2 | U | 1.2 | 7.2 | U | 7.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 1.2 | U | 1.2 | 7.2 | U | 7.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 1.2 | U | 1.2 | 7.2 | U | 7.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 3.0 | U | 3.0 | 22 | U | 22 |
| Hexachlorobutadiene | 87-68-3 | 1.2 | U | 1.2 | 13 | U | 13 |
| Naphthalene | 91-20-3 | 3.0 | U | 3.0 | 16 | U | 16 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-04

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688440

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 1.5 | U | 1.5 | 7.4 | U | 7.4 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.60 | U | 0.60 | 4.2 | U | 4.2 |
| Chloromethane | 74-87-3 | 1.5 | U | 1.5 | 3.1 | U | 3.1 |
| Vinyl Chloride | 75-01-4 | 0.60 | U | 0.60 | 1.5 | U | 1.5 |
| 1,3-Butadiene | 106-99-0 | 1.5 | U | 1.5 | 3.3 | U | 3.3 |
| Bromomethane | 74-83-9 | 0.60 | U | 0.60 | 2.3 | U | 2.3 |
| Chloroethane | 75-00-3 | 1.5 | U | 1.5 | 4.0 | U | 4.0 |
| Bromoethene | 593-60-2 | 0.60 | U | 0.60 | 2.6 | U | 2.6 |
| Trichlorofluoromethane | 75-69-4 | 0.60 | U | 0.60 | 3.4 | U | 3.4 |
| Freon TF | 76-13-1 | 0.60 | U | 0.60 | 4.6 | U | 4.6 |
| 1,1-Dichloroethene | 75-35-4 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| Acetone | 67-64-1 | 15 | U | 15 | 36 | U | 36 |
| Isopropyl Alcohol | 67-63-0 | 15 | U | 15 | 37 | U | 37 |
| Carbon Disulfide | 75-15-0 | 1.5 | U | 1.5 | 4.7 | U | 4.7 |
| 3-Chloropropene | 107-05-1 | 1.5 | U | 1.5 | 4.7 | U | 4.7 |
| Methylene Chloride | 75-09-2 | 1.5 | U | 1.5 | 5.2 | U | 5.2 |
| tert-Butyl Alcohol | 75-65-0 | 15 | U | 15 | 45 | U | 45 |
| Methyl tert-Butyl Ether | 1634-04-4 | 1.5 | U | 1.5 | 5.4 | U | 5.4 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| n-Hexane | 110-54-3 | 1.5 | U | 1.5 | 5.3 | U | 5.3 |
| 1,1-Dichloroethane | 75-34-3 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| Methyl Ethyl Ketone | 78-93-3 | 50 | | 1.5 | 150 | | 4.4 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| Tetrahydrofuran | 109-99-9 | 15 | U | 15 | 44 | U | 44 |
| Chloroform | 67-66-3 | 0.60 | U | 0.60 | 2.9 | U | 2.9 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.60 | U | 0.60 | 3.3 | U | 3.3 |
| Cyclohexane | 110-82-7 | 0.60 | U | 0.60 | 2.1 | U | 2.1 |
| Carbon Tetrachloride | 56-23-5 | 0.60 | U | 0.60 | 3.8 | U | 3.8 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.60 | U | 0.60 | 2.8 | U | 2.8 |
| Benzene | 71-43-2 | 0.60 | U | 0.60 | 1.9 | U | 1.9 |
| 1,2-Dichloroethane | 107-06-2 | 0.60 | U | 0.60 | 2.4 | U | 2.4 |
| n-Heptane | 142-82-5 | 0.60 | U | 0.60 | 2.5 | U | 2.5 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-04

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688440

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 81 | | 0.60 | 440 | | 3.2 |
| Methyl Methacrylate | 80-62-6 | 1.5 | U | 1.5 | 6.1 | U | 6.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.60 | U | 0.60 | 2.8 | U | 2.8 |
| 1,4-Dioxane | 123-91-1 | 15 | U | 15 | 54 | U | 54 |
| Bromodichloromethane | 75-27-4 | 0.60 | U | 0.60 | 4.0 | U | 4.0 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.60 | U | 0.60 | 2.7 | U | 2.7 |
| Methyl Isobutyl Ketone | 108-10-1 | 1.5 | U | 1.5 | 6.1 | U | 6.1 |
| Toluene | 108-88-3 | 3.8 | | 0.60 | 14 | | 2.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.60 | U | 0.60 | 2.7 | U | 2.7 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.60 | U | 0.60 | 3.3 | U | 3.3 |
| Tetrachloroethene | 127-18-4 | 37 | | 0.60 | 250 | | 4.1 |
| Methyl Butyl Ketone | 591-78-6 | 5.4 | | 1.5 | 22 | | 6.1 |
| Dibromochloromethane | 124-48-1 | 0.60 | U | 0.60 | 5.1 | U | 5.1 |
| 1,2-Dibromoethane | 106-93-4 | 0.60 | U | 0.60 | 4.6 | U | 4.6 |
| Chlorobenzene | 108-90-7 | 0.60 | U | 0.60 | 2.8 | U | 2.8 |
| Ethylbenzene | 100-41-4 | 0.60 | U | 0.60 | 2.6 | U | 2.6 |
| Xylene (m,p) | 1330-20-7 | 1.7 | | 1.5 | 7.4 | | 6.5 |
| Xylene (o) | 95-47-6 | 0.60 | U | 0.60 | 2.6 | U | 2.6 |
| Xylene (total) | 1330-20-7 | 1.7 | | 0.60 | 7.4 | | 2.6 |
| Styrene | 100-42-5 | 0.91 | | 0.60 | 3.9 | | 2.6 |
| Bromoform | 75-25-2 | 0.60 | U | 0.60 | 6.2 | U | 6.2 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.60 | U | 0.60 | 4.1 | U | 4.1 |
| 4-Ethyltoluene | 622-96-8 | 0.60 | U | 0.60 | 2.9 | U | 2.9 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.60 | U | 0.60 | 2.9 | U | 2.9 |
| 2-Chlorotoluene | 95-49-8 | 0.60 | U | 0.60 | 3.1 | U | 3.1 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.61 | | 0.60 | 3.0 | | 2.9 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.60 | U | 0.60 | 3.6 | U | 3.6 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.60 | U | 0.60 | 3.6 | U | 3.6 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.60 | U | 0.60 | 3.6 | U | 3.6 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1.5 | U | 1.5 | 11 | U | 11 |
| Hexachlorobutadiene | 87-68-3 | 0.60 | U | 0.60 | 6.4 | U | 6.4 |
| Naphthalene | 91-20-3 | 1.5 | U | 1.5 | 7.9 | U | 7.9 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-05

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688441

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.75 | U | 0.75 | 3.7 | U | 3.7 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.30 | U | 0.30 | 2.1 | U | 2.1 |
| Chloromethane | 74-87-3 | 0.75 | U | 0.75 | 1.5 | U | 1.5 |
| Vinyl Chloride | 75-01-4 | 0.30 | U | 0.30 | 0.77 | U | 0.77 |
| 1,3-Butadiene | 106-99-0 | 4.6 | | 0.75 | 10 | | 1.7 |
| Bromomethane | 74-83-9 | 0.30 | U | 0.30 | 1.2 | U | 1.2 |
| Chloroethane | 75-00-3 | 0.75 | U | 0.75 | 2.0 | U | 2.0 |
| Bromoethene | 593-60-2 | 0.30 | U | 0.30 | 1.3 | U | 1.3 |
| Trichlorofluoromethane | 75-69-4 | 0.30 | U | 0.30 | 1.7 | U | 1.7 |
| Freon TF | 76-13-1 | 0.30 | U | 0.30 | 2.3 | U | 2.3 |
| 1,1-Dichloroethene | 75-35-4 | 0.30 | U | 0.30 | 1.2 | U | 1.2 |
| Acetone | 67-64-1 | 26 | | 7.5 | 62 | | 18 |
| Isopropyl Alcohol | 67-63-0 | 7.5 | U | 7.5 | 18 | U | 18 |
| Carbon Disulfide | 75-15-0 | 1.1 | | 0.75 | 3.4 | | 2.3 |
| 3-Chloropropene | 107-05-1 | 0.75 | U | 0.75 | 2.3 | U | 2.3 |
| Methylene Chloride | 75-09-2 | 0.75 | U | 0.75 | 2.6 | U | 2.6 |
| tert-Butyl Alcohol | 75-65-0 | 7.5 | U | 7.5 | 23 | U | 23 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.75 | U | 0.75 | 2.7 | U | 2.7 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.30 | U | 0.30 | 1.2 | U | 1.2 |
| n-Hexane | 110-54-3 | 1.8 | | 0.75 | 6.3 | | 2.6 |
| 1,1-Dichloroethane | 75-34-3 | 0.30 | U | 0.30 | 1.2 | U | 1.2 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.30 | U | 0.30 | 1.2 | U | 1.2 |
| Methyl Ethyl Ketone | 78-93-3 | 15 | | 0.75 | 44 | | 2.2 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.30 | U | 0.30 | 1.2 | U | 1.2 |
| Tetrahydrofuran | 109-99-9 | 7.5 | U | 7.5 | 22 | U | 22 |
| Chloroform | 67-66-3 | 0.30 | U | 0.30 | 1.5 | U | 1.5 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.30 | U | 0.30 | 1.6 | U | 1.6 |
| Cyclohexane | 110-82-7 | 0.30 | U | 0.30 | 1.0 | U | 1.0 |
| Carbon Tetrachloride | 56-23-5 | 0.30 | U | 0.30 | 1.9 | U | 1.9 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.30 | U | 0.30 | 1.4 | U | 1.4 |
| Benzene | 71-43-2 | 1.1 | | 0.30 | 3.5 | | 0.96 |
| 1,2-Dichloroethane | 107-06-2 | 0.30 | U | 0.30 | 1.2 | U | 1.2 |
| n-Heptane | 142-82-5 | 1.1 | | 0.30 | 4.5 | | 1.2 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-05

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688441

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 33 | | 0.30 | 180 | | 1.6 |
| Methyl Methacrylate | 80-62-6 | 0.75 | U | 0.75 | 3.1 | U | 3.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.30 | U | 0.30 | 1.4 | U | 1.4 |
| 1,4-Dioxane | 123-91-1 | 7.5 | U | 7.5 | 27 | U | 27 |
| Bromodichloromethane | 75-27-4 | 0.30 | U | 0.30 | 2.0 | U | 2.0 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.30 | U | 0.30 | 1.4 | U | 1.4 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.75 | U | 0.75 | 3.1 | U | 3.1 |
| Toluene | 108-88-3 | 4.5 | | 0.30 | 17 | | 1.1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.30 | U | 0.30 | 1.4 | U | 1.4 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.30 | U | 0.30 | 1.6 | U | 1.6 |
| Tetrachloroethene | 127-18-4 | 28 | | 0.30 | 190 | | 2.0 |
| Methyl Butyl Ketone | 591-78-6 | 1.5 | | 0.75 | 6.1 | | 3.1 |
| Dibromochloromethane | 124-48-1 | 0.30 | U | 0.30 | 2.6 | U | 2.6 |
| 1,2-Dibromoethane | 106-93-4 | 0.30 | U | 0.30 | 2.3 | U | 2.3 |
| Chlorobenzene | 108-90-7 | 0.30 | U | 0.30 | 1.4 | U | 1.4 |
| Ethylbenzene | 100-41-4 | 0.81 | | 0.30 | 3.5 | | 1.3 |
| Xylene (m,p) | 1330-20-7 | 2.9 | | 0.75 | 13 | | 3.3 |
| Xylene (o) | 95-47-6 | 0.85 | | 0.30 | 3.7 | | 1.3 |
| Xylene (total) | 1330-20-7 | 3.8 | | 0.30 | 17 | | 1.3 |
| Styrene | 100-42-5 | 1.1 | | 0.30 | 4.7 | | 1.3 |
| Bromoform | 75-25-2 | 0.30 | U | 0.30 | 3.1 | U | 3.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.30 | U | 0.30 | 2.1 | U | 2.1 |
| 4-Ethyltoluene | 622-96-8 | 0.54 | | 0.30 | 2.7 | | 1.5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.30 | U | 0.30 | 1.5 | U | 1.5 |
| 2-Chlorotoluene | 95-49-8 | 0.30 | U | 0.30 | 1.6 | U | 1.6 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.79 | | 0.30 | 3.9 | | 1.5 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.30 | U | 0.30 | 1.8 | U | 1.8 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.30 | U | 0.30 | 1.8 | U | 1.8 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.30 | U | 0.30 | 1.8 | U | 1.8 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.75 | U | 0.75 | 5.6 | U | 5.6 |
| Hexachlorobutadiene | 87-68-3 | 0.30 | U | 0.30 | 3.2 | U | 3.2 |
| Naphthalene | 91-20-3 | 0.75 | U | 0.75 | 3.9 | U | 3.9 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-06

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688442

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.60 | | 0.50 | 3.0 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Chloromethane | 74-87-3 | 0.50 | U | 0.50 | 1.0 | U | 1.0 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 2.9 | | 0.50 | 6.4 | | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.50 | U | 0.50 | 1.3 | U | 1.3 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.26 | | 0.20 | 1.5 | | 1.1 |
| Freon TF | 76-13-1 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Acetone | 67-64-1 | 23 | | 5.0 | 55 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 5.0 | U | 5.0 | 12 | U | 12 |
| Carbon Disulfide | 75-15-0 | 1.7 | | 0.50 | 5.3 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methylene Chloride | 75-09-2 | 0.50 | U | 0.50 | 1.7 | U | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 5.0 | U | 5.0 | 15 | U | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 3.8 | | 0.50 | 13 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 32 | | 0.50 | 94 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Tetrahydrofuran | 109-99-9 | 5.0 | U | 5.0 | 15 | U | 15 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.63 | | 0.20 | 2.2 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.93 | | 0.20 | 3.0 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 1.8 | | 0.20 | 7.4 | | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

AOC9-SV-06

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688442

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 5.0 | | 0.20 | 27 | | 1.1 |
| Methyl Methacrylate | 80-62-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| 1,4-Dioxane | 123-91-1 | 5.0 | U | 5.0 | 18 | U | 18 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Toluene | 108-88-3 | 2.3 | | 0.20 | 8.7 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 19 | | 0.20 | 130 | | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 2.7 | | 0.50 | 11 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Chlorobenzene | 108-90-7 | 0.31 | | 0.20 | 1.4 | | 0.92 |
| Ethylbenzene | 100-41-4 | 0.52 | | 0.20 | 2.3 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 1.6 | | 0.50 | 6.9 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.45 | | 0.20 | 2.0 | | 0.87 |
| Xylene (total) | 1330-20-7 | 2.1 | | 0.20 | 9.1 | | 0.87 |
| Styrene | 100-42-5 | 0.83 | | 0.20 | 3.5 | | 0.85 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.43 | | 0.20 | 2.1 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 0.20 | U | 0.20 | 1.0 | U | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.67 | | 0.20 | 3.3 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.50 | U | 0.50 | 3.7 | U | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| Naphthalene | 91-20-3 | 0.50 | U | 0.50 | 2.6 | U | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

775-SV-04

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688443

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.67 | | 0.50 | 3.3 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Chloromethane | 74-87-3 | 0.50 | U | 0.50 | 1.0 | U | 1.0 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.62 | | 0.50 | 1.4 | | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.50 | U | 0.50 | 1.3 | U | 1.3 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 1.7 | | 0.20 | 9.6 | | 1.1 |
| Freon TF | 76-13-1 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Acetone | 67-64-1 | 6.8 | | 5.0 | 16 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 5.0 | U | 5.0 | 12 | U | 12 |
| Carbon Disulfide | 75-15-0 | 1.4 | | 0.50 | 4.4 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methylene Chloride | 75-09-2 | 0.50 | U | 0.50 | 1.7 | U | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 5.0 | U | 5.0 | 15 | U | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.58 | | 0.50 | 2.0 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 6.5 | | 0.50 | 19 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Tetrahydrofuran | 109-99-9 | 5.0 | U | 5.0 | 15 | U | 15 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.24 | | 0.20 | 1.3 | | 1.1 |
| Cyclohexane | 110-82-7 | 0.20 | U | 0.20 | 0.69 | U | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.20 | U | 0.20 | 0.64 | U | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.37 | | 0.20 | 1.5 | | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

775-SV-04

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688443

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Methyl Methacrylate | 80-62-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| 1,4-Dioxane | 123-91-1 | 5.0 | U | 5.0 | 18 | U | 18 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Toluene | 108-88-3 | 1.9 | | 0.20 | 7.2 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 0.69 | | 0.50 | 2.8 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Chlorobenzene | 108-90-7 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Ethylbenzene | 100-41-4 | 0.41 | | 0.20 | 1.8 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 1.4 | | 0.50 | 6.1 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.39 | | 0.20 | 1.7 | | 0.87 |
| Xylene (total) | 1330-20-7 | 1.8 | | 0.20 | 7.8 | | 0.87 |
| Styrene | 100-42-5 | 0.71 | | 0.20 | 3.0 | | 0.85 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.41 | | 0.20 | 2.0 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 0.20 | U | 0.20 | 1.0 | U | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.73 | | 0.20 | 3.6 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.50 | U | 0.50 | 3.7 | U | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| Naphthalene | 91-20-3 | 0.50 | U | 0.50 | 2.6 | U | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

775-SV-04 D

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688444

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.69 | | 0.50 | 3.4 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Chloromethane | 74-87-3 | 0.50 | U | 0.50 | 1.0 | U | 1.0 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.60 | | 0.50 | 1.3 | | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.50 | U | 0.50 | 1.3 | U | 1.3 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 1.6 | | 0.20 | 9.0 | | 1.1 |
| Freon TF | 76-13-1 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Acetone | 67-64-1 | 8.0 | | 5.0 | 19 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 5.0 | U | 5.0 | 12 | U | 12 |
| Carbon Disulfide | 75-15-0 | 0.78 | | 0.50 | 2.4 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methylene Chloride | 75-09-2 | 0.50 | U | 0.50 | 1.7 | U | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 5.0 | U | 5.0 | 15 | U | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.57 | | 0.50 | 2.0 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 6.6 | | 0.50 | 19 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Tetrahydrofuran | 109-99-9 | 5.0 | U | 5.0 | 15 | U | 15 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.22 | | 0.20 | 1.2 | | 1.1 |
| Cyclohexane | 110-82-7 | 0.20 | U | 0.20 | 0.69 | U | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.20 | U | 0.20 | 0.64 | U | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.34 | | 0.20 | 1.4 | | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

775-SV-04 D

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688444

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Methyl Methacrylate | 80-62-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| 1,4-Dioxane | 123-91-1 | 5.0 | U | 5.0 | 18 | U | 18 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Toluene | 108-88-3 | 1.8 | | 0.20 | 6.8 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 0.58 | | 0.50 | 2.4 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Chlorobenzene | 108-90-7 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Ethylbenzene | 100-41-4 | 0.37 | | 0.20 | 1.6 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 1.3 | | 0.50 | 5.6 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.35 | | 0.20 | 1.5 | | 0.87 |
| Xylene (total) | 1330-20-7 | 1.6 | | 0.20 | 6.9 | | 0.87 |
| Styrene | 100-42-5 | 0.63 | | 0.20 | 2.7 | | 0.85 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.27 | | 0.20 | 1.3 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 0.20 | U | 0.20 | 1.0 | U | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.67 | | 0.20 | 3.3 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.50 | U | 0.50 | 3.7 | U | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| Naphthalene | 91-20-3 | 0.50 | U | 0.50 | 2.6 | U | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

775-SV-01

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688445

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.77 | | 0.50 | 3.8 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Chloromethane | 74-87-3 | 0.50 | U | 0.50 | 1.0 | U | 1.0 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.93 | | 0.50 | 2.1 | | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.50 | U | 0.50 | 1.3 | U | 1.3 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 1.8 | | 0.20 | 10 | | 1.1 |
| Freon TF | 76-13-1 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Acetone | 67-64-1 | 5.5 | | 5.0 | 13 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 5.0 | U | 5.0 | 12 | U | 12 |
| Carbon Disulfide | 75-15-0 | 3.5 | | 0.50 | 11 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methylene Chloride | 75-09-2 | 0.50 | U | 0.50 | 1.7 | U | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 5.0 | U | 5.0 | 15 | U | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.73 | | 0.50 | 2.6 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 9.1 | | 0.50 | 27 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Tetrahydrofuran | 109-99-9 | 5.0 | U | 5.0 | 15 | U | 15 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.20 | U | 0.20 | 0.69 | U | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.22 | | 0.20 | 0.70 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.56 | | 0.20 | 2.3 | | 0.82 |

TO-14/15
Result Summary

CLIENT SAMPLE NO.

775-SV-01

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688445

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Methyl Methacrylate | 80-62-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| 1,4-Dioxane | 123-91-1 | 5.0 | U | 5.0 | 18 | U | 18 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Toluene | 108-88-3 | 2.6 | | 0.20 | 9.8 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 0.94 | | 0.50 | 3.9 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Chlorobenzene | 108-90-7 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Ethylbenzene | 100-41-4 | 0.68 | | 0.20 | 3.0 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 2.4 | | 0.50 | 10 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.59 | | 0.20 | 2.6 | | 0.87 |
| Xylene (total) | 1330-20-7 | 3.0 | | 0.20 | 13 | | 0.87 |
| Styrene | 100-42-5 | 1.1 | | 0.20 | 4.7 | | 0.85 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.22 | | 0.20 | 1.1 | | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 0.20 | U | 0.20 | 1.0 | U | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.86 | | 0.20 | 4.2 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.50 | U | 0.50 | 3.7 | U | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| Naphthalene | 91-20-3 | 0.50 | U | 0.50 | 2.6 | U | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

775-SV-03

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688446

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.74 | | 0.50 | 3.7 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Chloromethane | 74-87-3 | 0.50 | U | 0.50 | 1.0 | U | 1.0 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 1.7 | | 0.50 | 3.8 | | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.50 | U | 0.50 | 1.3 | U | 1.3 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 2.1 | | 0.20 | 12 | | 1.1 |
| Freon TF | 76-13-1 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Acetone | 67-64-1 | 18 | | 5.0 | 43 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 5.0 | U | 5.0 | 12 | U | 12 |
| Carbon Disulfide | 75-15-0 | 6.2 | | 0.50 | 19 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methylene Chloride | 75-09-2 | 1.1 | | 0.50 | 3.8 | | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 5.0 | U | 5.0 | 15 | U | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 2.7 | | 0.50 | 9.5 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 14 | | 0.50 | 41 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Tetrahydrofuran | 109-99-9 | 5.0 | U | 5.0 | 15 | U | 15 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 10 | | 0.20 | 55 | | 1.1 |
| Cyclohexane | 110-82-7 | 0.78 | | 0.20 | 2.7 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.27 | | 0.20 | 1.7 | | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.71 | | 0.20 | 2.3 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 1.9 | | 0.20 | 7.8 | | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

775-SV-03

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688446

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 13 | | 0.20 | 70 | | 1.1 |
| Methyl Methacrylate | 80-62-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| 1,4-Dioxane | 123-91-1 | 5.0 | U | 5.0 | 18 | U | 18 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Toluene | 108-88-3 | 4.9 | | 0.20 | 18 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 1.8 | | 0.50 | 7.4 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Chlorobenzene | 108-90-7 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Ethylbenzene | 100-41-4 | 1.1 | | 0.20 | 4.8 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 3.5 | | 0.50 | 15 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.92 | | 0.20 | 4.0 | | 0.87 |
| Xylene (total) | 1330-20-7 | 4.5 | | 0.20 | 20 | | 0.87 |
| Styrene | 100-42-5 | 1.3 | | 0.20 | 5.5 | | 0.85 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.28 | | 0.20 | 1.4 | | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 0.20 | U | 0.20 | 1.0 | U | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.98 | | 0.20 | 4.8 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.26 | | 0.20 | 1.6 | | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.50 | U | 0.50 | 3.7 | U | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| Naphthalene | 91-20-3 | 0.50 | U | 0.50 | 2.6 | U | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

775-SV-02

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688447

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.84 | | 0.50 | 4.2 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Chloromethane | 74-87-3 | 0.50 | U | 0.50 | 1.0 | U | 1.0 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 1.2 | | 0.50 | 2.7 | | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.50 | U | 0.50 | 1.3 | U | 1.3 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.67 | | 0.20 | 3.8 | | 1.1 |
| Freon TF | 76-13-1 | 0.38 | | 0.20 | 2.9 | | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Acetone | 67-64-1 | 10 | | 5.0 | 24 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 5.0 | U | 5.0 | 12 | U | 12 |
| Carbon Disulfide | 75-15-0 | 1.4 | | 0.50 | 4.4 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methylene Chloride | 75-09-2 | 0.50 | U | 0.50 | 1.7 | U | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 5.0 | U | 5.0 | 15 | U | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.76 | | 0.50 | 2.7 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 4.8 | | 0.50 | 14 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Tetrahydrofuran | 109-99-9 | 5.0 | U | 5.0 | 15 | U | 15 |
| Chloroform | 67-66-3 | 0.71 | | 0.20 | 3.5 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 4.1 | | 0.20 | 22 | | 1.1 |
| Cyclohexane | 110-82-7 | 0.23 | | 0.20 | 0.79 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.35 | | 0.20 | 1.1 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.58 | | 0.20 | 2.4 | | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

775-SV-02

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688447

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Methyl Methacrylate | 80-62-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| 1,4-Dioxane | 123-91-1 | 5.0 | U | 5.0 | 18 | U | 18 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Toluene | 108-88-3 | 2.2 | | 0.20 | 8.3 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 0.56 | | 0.50 | 2.3 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Chlorobenzene | 108-90-7 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Ethylbenzene | 100-41-4 | 0.53 | | 0.20 | 2.3 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 1.7 | | 0.50 | 7.4 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.48 | | 0.20 | 2.1 | | 0.87 |
| Xylene (total) | 1330-20-7 | 2.2 | | 0.20 | 9.6 | | 0.87 |
| Styrene | 100-42-5 | 0.74 | | 0.20 | 3.2 | | 0.85 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 0.20 | U | 0.20 | 1.0 | U | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.63 | | 0.20 | 3.1 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.50 | U | 0.50 | 3.7 | U | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| Naphthalene | 91-20-3 | 0.50 | U | 0.50 | 2.6 | U | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

TB-20-10-06

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688448

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 6.6 | | 0.50 | 33 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Chloromethane | 74-87-3 | 0.50 | U | 0.50 | 1.0 | U | 1.0 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.50 | U | 0.50 | 1.3 | U | 1.3 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Freon TF | 76-13-1 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Acetone | 67-64-1 | 5.0 | U | 5.0 | 12 | U | 12 |
| Isopropyl Alcohol | 67-63-0 | 5.0 | U | 5.0 | 12 | U | 12 |
| Carbon Disulfide | 75-15-0 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methylene Chloride | 75-09-2 | 0.50 | U | 0.50 | 1.7 | U | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 5.0 | U | 5.0 | 15 | U | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 0.50 | U | 0.50 | 1.5 | U | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Tetrahydrofuran | 109-99-9 | 5.0 | U | 5.0 | 15 | U | 15 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.20 | U | 0.20 | 0.69 | U | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.20 | U | 0.20 | 0.64 | U | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.20 | U | 0.20 | 0.82 | U | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

TB-20-10-06

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: 688448

Date Analyzed: 11/01/06

Date Received: 10/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Methyl Methacrylate | 80-62-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| 1,4-Dioxane | 123-91-1 | 5.0 | U | 5.0 | 18 | U | 18 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Toluene | 108-88-3 | 0.20 | U | 0.20 | 0.75 | U | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Chlorobenzene | 108-90-7 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Ethylbenzene | 100-41-4 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.50 | U | 0.50 | 2.2 | U | 2.2 |
| Xylene (o) | 95-47-6 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (total) | 1330-20-7 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Styrene | 100-42-5 | 0.20 | U | 0.20 | 0.85 | U | 0.85 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 0.20 | U | 0.20 | 1.0 | U | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.50 | U | 0.50 | 3.7 | U | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| Naphthalene | 91-20-3 | 0.50 | U | 0.50 | 2.6 | U | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

CA103106LCS

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: CA103106

Date Analyzed: 10/31/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 8.4 | | 0.50 | 42 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 8.3 | | 0.20 | 58 | | 1.4 |
| Chloromethane | 74-87-3 | 8.0 | | 0.50 | 17 | | 1.0 |
| Vinyl Chloride | 75-01-4 | 8.5 | | 0.20 | 22 | | 0.51 |
| 1,3-Butadiene | 106-99-0 | 8.3 | | 0.50 | 18 | | 1.1 |
| Bromomethane | 74-83-9 | 9.2 | | 0.20 | 36 | | 0.78 |
| Chloroethane | 75-00-3 | 9.0 | | 0.50 | 24 | | 1.3 |
| Bromoethene | 593-60-2 | 8.8 | | 0.20 | 38 | | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 8.9 | | 0.20 | 50 | | 1.1 |
| Freon TF | 76-13-1 | 8.5 | | 0.20 | 65 | | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 8.0 | | 0.20 | 32 | | 0.79 |
| Acetone | 67-64-1 | 8.6 | | 5.0 | 20 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 7.1 | | 5.0 | 17 | | 12 |
| Carbon Disulfide | 75-15-0 | 8.6 | | 0.50 | 27 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 8.2 | | 0.50 | 26 | | 1.6 |
| Methylene Chloride | 75-09-2 | 7.6 | | 0.50 | 26 | | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 7.7 | | 5.0 | 23 | | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 8.5 | | 0.50 | 31 | | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 8.2 | | 0.20 | 33 | | 0.79 |
| n-Hexane | 110-54-3 | 8.4 | | 0.50 | 30 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 8.4 | | 0.20 | 34 | | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 16 | | 0.20 | 63 | | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 7.4 | | 0.50 | 22 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 8.2 | | 0.20 | 33 | | 0.79 |
| Tetrahydrofuran | 109-99-9 | 7.5 | | 5.0 | 22 | | 15 |
| Chloroform | 67-66-3 | 8.4 | | 0.20 | 41 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 8.4 | | 0.20 | 46 | | 1.1 |
| Cyclohexane | 110-82-7 | 8.5 | | 0.20 | 29 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 8.7 | | 0.20 | 55 | | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 8.3 | | 0.20 | 39 | | 0.93 |
| Benzene | 71-43-2 | 8.2 | | 0.20 | 26 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 8.0 | | 0.20 | 32 | | 0.81 |
| n-Heptane | 142-82-5 | 7.8 | | 0.20 | 32 | | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

CA103106LCS

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: CA103106

Date Analyzed: 10/31/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 8.3 | | 0.20 | 45 | | 1.1 |
| Methyl Methacrylate | 80-62-6 | 7.8 | | 0.50 | 32 | | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 8.0 | | 0.20 | 37 | | 0.92 |
| 1,4-Dioxane | 123-91-1 | 6.8 | | 5.0 | 25 | | 18 |
| Bromodichloromethane | 75-27-4 | 8.1 | | 0.20 | 54 | | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8.2 | | 0.20 | 37 | | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 7.7 | | 0.50 | 32 | | 2.0 |
| Toluene | 108-88-3 | 8.4 | | 0.20 | 32 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8.3 | | 0.20 | 38 | | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 8.7 | | 0.20 | 47 | | 1.1 |
| Tetrachloroethene | 127-18-4 | 8.9 | | 0.20 | 60 | | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 7.6 | | 0.50 | 31 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 8.9 | | 0.20 | 76 | | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 8.8 | | 0.20 | 68 | | 1.5 |
| Chlorobenzene | 108-90-7 | 8.7 | | 0.20 | 40 | | 0.92 |
| Ethylbenzene | 100-41-4 | 8.3 | | 0.20 | 36 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 17 | | 0.50 | 74 | | 2.2 |
| Xylene (o) | 95-47-6 | 8.5 | | 0.20 | 37 | | 0.87 |
| Xylene (total) | 1330-20-7 | 26 | | 0.20 | 110 | | 0.87 |
| Styrene | 100-42-5 | 8.3 | | 0.20 | 35 | | 0.85 |
| Bromoform | 75-25-2 | 9.0 | | 0.20 | 93 | | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8.4 | | 0.20 | 58 | | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 8.3 | | 0.20 | 41 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 8.7 | | 0.20 | 43 | | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 8.5 | | 0.20 | 44 | | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 8.5 | | 0.20 | 42 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 9.3 | | 0.20 | 56 | | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 9.1 | | 0.20 | 55 | | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 9.5 | | 0.20 | 57 | | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8.6 | | 0.50 | 64 | | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 8.9 | | 0.20 | 95 | | 2.1 |
| Naphthalene | 91-20-3 | 7.9 | | 0.50 | 41 | | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

CA103106LCSD

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: CA103106

Date Analyzed: 10/31/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 9.3 | | 0.50 | 46 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 9.2 | | 0.20 | 64 | | 1.4 |
| Chloromethane | 74-87-3 | 8.9 | | 0.50 | 18 | | 1.0 |
| Vinyl Chloride | 75-01-4 | 9.4 | | 0.20 | 24 | | 0.51 |
| 1,3-Butadiene | 106-99-0 | 9.3 | | 0.50 | 21 | | 1.1 |
| Bromomethane | 74-83-9 | 10 | | 0.20 | 39 | | 0.78 |
| Chloroethane | 75-00-3 | 9.9 | | 0.50 | 26 | | 1.3 |
| Bromoethene | 593-60-2 | 9.7 | | 0.20 | 42 | | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 9.9 | | 0.20 | 56 | | 1.1 |
| Freon TF | 76-13-1 | 9.3 | | 0.20 | 71 | | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 8.8 | | 0.20 | 35 | | 0.79 |
| Acetone | 67-64-1 | 8.1 | | 5.0 | 19 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 7.9 | | 5.0 | 19 | | 12 |
| Carbon Disulfide | 75-15-0 | 9.6 | | 0.50 | 30 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 8.5 | | 0.50 | 27 | | 1.6 |
| Methylene Chloride | 75-09-2 | 8.2 | | 0.50 | 28 | | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 8.7 | | 5.0 | 26 | | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 8.0 | | 0.50 | 29 | | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 8.9 | | 0.20 | 35 | | 0.79 |
| n-Hexane | 110-54-3 | 8.8 | | 0.50 | 31 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 8.7 | | 0.20 | 35 | | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 17 | | 0.20 | 67 | | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 7.6 | | 0.50 | 22 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 8.5 | | 0.20 | 34 | | 0.79 |
| Tetrahydrofuran | 109-99-9 | 7.2 | | 5.0 | 21 | | 15 |
| Chloroform | 67-66-3 | 8.7 | | 0.20 | 42 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 8.9 | | 0.20 | 49 | | 1.1 |
| Cyclohexane | 110-82-7 | 9.3 | | 0.20 | 32 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 9.4 | | 0.20 | 59 | | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 8.8 | | 0.20 | 41 | | 0.93 |
| Benzene | 71-43-2 | 8.5 | | 0.20 | 27 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 8.2 | | 0.20 | 33 | | 0.81 |
| n-Heptane | 142-82-5 | 8.1 | | 0.20 | 33 | | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

CA103106LCSD

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: CA103106

Date Analyzed: 10/31/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 8.7 | | 0.20 | 47 | | 1.1 |
| Methyl Methacrylate | 80-62-6 | 7.7 | | 0.50 | 32 | | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 8.3 | | 0.20 | 38 | | 0.92 |
| 1,4-Dioxane | 123-91-1 | 7.5 | | 5.0 | 27 | | 18 |
| Bromodichloromethane | 75-27-4 | 8.4 | | 0.20 | 56 | | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8.6 | | 0.20 | 39 | | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 8.9 | | 0.50 | 36 | | 2.0 |
| Toluene | 108-88-3 | 8.6 | | 0.20 | 32 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8.7 | | 0.20 | 39 | | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 9.0 | | 0.20 | 49 | | 1.1 |
| Tetrachloroethene | 127-18-4 | 9.4 | | 0.20 | 64 | | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 8.7 | | 0.50 | 36 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 9.4 | | 0.20 | 80 | | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 9.3 | | 0.20 | 71 | | 1.5 |
| Chlorobenzene | 108-90-7 | 9.2 | | 0.20 | 42 | | 0.92 |
| Ethylbenzene | 100-41-4 | 8.5 | | 0.20 | 37 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 18 | | 0.50 | 78 | | 2.2 |
| Xylene (o) | 95-47-6 | 8.8 | | 0.20 | 38 | | 0.87 |
| Xylene (total) | 1330-20-7 | 26 | | 0.20 | 110 | | 0.87 |
| Styrene | 100-42-5 | 8.8 | | 0.20 | 37 | | 0.85 |
| Bromoform | 75-25-2 | 9.6 | | 0.20 | 99 | | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8.8 | | 0.20 | 60 | | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 8.9 | | 0.20 | 44 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 8.4 | | 0.20 | 41 | | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 8.9 | | 0.20 | 46 | | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 8.5 | | 0.20 | 42 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 10 | | 0.20 | 60 | | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 10 | | 0.20 | 60 | | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 10 | | 0.20 | 60 | | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 9.8 | | 0.50 | 73 | | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 9.6 | | 0.20 | 100 | | 2.1 |
| Naphthalene | 91-20-3 | 8.8 | | 0.50 | 46 | | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

CA110106LCS

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: CA110106

Date Analyzed: 11/01/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 9.8 | | 0.50 | 48 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 9.6 | | 0.20 | 67 | | 1.4 |
| Chloromethane | 74-87-3 | 9.0 | | 0.50 | 19 | | 1.0 |
| Vinyl Chloride | 75-01-4 | 9.7 | | 0.20 | 25 | | 0.51 |
| 1,3-Butadiene | 106-99-0 | 9.6 | | 0.50 | 21 | | 1.1 |
| Bromomethane | 74-83-9 | 11 | | 0.20 | 43 | | 0.78 |
| Chloroethane | 75-00-3 | 10 | | 0.50 | 26 | | 1.3 |
| Bromoethene | 593-60-2 | 10 | | 0.20 | 44 | | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 11 | | 0.20 | 62 | | 1.1 |
| Freon TF | 76-13-1 | 9.5 | | 0.20 | 73 | | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 8.9 | | 0.20 | 35 | | 0.79 |
| Acetone | 67-64-1 | 8.5 | | 5.0 | 20 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 8.4 | | 5.0 | 21 | | 12 |
| Carbon Disulfide | 75-15-0 | 9.5 | | 0.50 | 30 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 8.7 | | 0.50 | 27 | | 1.6 |
| Methylene Chloride | 75-09-2 | 8.4 | | 0.50 | 29 | | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 9.0 | | 5.0 | 27 | | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 8.0 | | 0.50 | 29 | | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 8.9 | | 0.20 | 35 | | 0.79 |
| n-Hexane | 110-54-3 | 8.9 | | 0.50 | 31 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 8.7 | | 0.20 | 35 | | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 17 | | 0.20 | 67 | | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 7.6 | | 0.50 | 22 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 8.5 | | 0.20 | 34 | | 0.79 |
| Tetrahydrofuran | 109-99-9 | 7.2 | | 5.0 | 21 | | 15 |
| Chloroform | 67-66-3 | 8.9 | | 0.20 | 43 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 9.1 | | 0.20 | 50 | | 1.1 |
| Cyclohexane | 110-82-7 | 9.0 | | 0.20 | 31 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 9.7 | | 0.20 | 61 | | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 8.7 | | 0.20 | 41 | | 0.93 |
| Benzene | 71-43-2 | 8.2 | | 0.20 | 26 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 8.4 | | 0.20 | 34 | | 0.81 |
| n-Heptane | 142-82-5 | 8.2 | | 0.20 | 34 | | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

CA110106LCS

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: CA110106

Date Analyzed: 11/01/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 8.8 | | 0.20 | 47 | | 1.1 |
| Methyl Methacrylate | 80-62-6 | 7.7 | | 0.50 | 32 | | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 8.0 | | 0.20 | 37 | | 0.92 |
| 1,4-Dioxane | 123-91-1 | 7.3 | | 5.0 | 26 | | 18 |
| Bromodichloromethane | 75-27-4 | 8.4 | | 0.20 | 56 | | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8.4 | | 0.20 | 38 | | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 9.1 | | 0.50 | 37 | | 2.0 |
| Toluene | 108-88-3 | 8.5 | | 0.20 | 32 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8.6 | | 0.20 | 39 | | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 8.8 | | 0.20 | 48 | | 1.1 |
| Tetrachloroethene | 127-18-4 | 9.1 | | 0.20 | 62 | | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 8.8 | | 0.50 | 36 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 9.5 | | 0.20 | 81 | | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 9.1 | | 0.20 | 70 | | 1.5 |
| Chlorobenzene | 108-90-7 | 9.1 | | 0.20 | 42 | | 0.92 |
| Ethylbenzene | 100-41-4 | 8.4 | | 0.20 | 36 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 17 | | 0.50 | 74 | | 2.2 |
| Xylene (o) | 95-47-6 | 8.5 | | 0.20 | 37 | | 0.87 |
| Xylene (total) | 1330-20-7 | 26 | | 0.20 | 110 | | 0.87 |
| Styrene | 100-42-5 | 8.6 | | 0.20 | 37 | | 0.85 |
| Bromoform | 75-25-2 | 9.4 | | 0.20 | 97 | | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8.4 | | 0.20 | 58 | | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 8.5 | | 0.20 | 42 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 8.1 | | 0.20 | 40 | | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 8.8 | | 0.20 | 46 | | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 8.3 | | 0.20 | 41 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 10 | | 0.20 | 60 | | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 10 | | 0.20 | 60 | | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 10 | | 0.20 | 60 | | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 9.4 | | 0.50 | 70 | | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 9.2 | | 0.20 | 98 | | 2.1 |
| Naphthalene | 91-20-3 | 8.7 | | 0.50 | 46 | | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

CA110106LCSD

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: CA110106

Date Analyzed: 11/01/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 9.6 | | 0.50 | 47 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 9.4 | | 0.20 | 66 | | 1.4 |
| Chloromethane | 74-87-3 | 8.8 | | 0.50 | 18 | | 1.0 |
| Vinyl Chloride | 75-01-4 | 9.4 | | 0.20 | 24 | | 0.51 |
| 1,3-Butadiene | 106-99-0 | 9.4 | | 0.50 | 21 | | 1.1 |
| Bromomethane | 74-83-9 | 10 | | 0.20 | 39 | | 0.78 |
| Chloroethane | 75-00-3 | 10 | | 0.50 | 26 | | 1.3 |
| Bromoethene | 593-60-2 | 9.8 | | 0.20 | 43 | | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 10 | | 0.20 | 56 | | 1.1 |
| Freon TF | 76-13-1 | 9.3 | | 0.20 | 71 | | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 8.7 | | 0.20 | 34 | | 0.79 |
| Acetone | 67-64-1 | 8.2 | | 5.0 | 19 | | 12 |
| Isopropyl Alcohol | 67-63-0 | 8.1 | | 5.0 | 20 | | 12 |
| Carbon Disulfide | 75-15-0 | 9.3 | | 0.50 | 29 | | 1.6 |
| 3-Chloropropene | 107-05-1 | 8.5 | | 0.50 | 27 | | 1.6 |
| Methylene Chloride | 75-09-2 | 8.3 | | 0.50 | 29 | | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 8.7 | | 5.0 | 26 | | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 7.7 | | 0.50 | 28 | | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 8.9 | | 0.20 | 35 | | 0.79 |
| n-Hexane | 110-54-3 | 8.8 | | 0.50 | 31 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 8.6 | | 0.20 | 35 | | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 17 | | 0.20 | 67 | | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 7.4 | | 0.50 | 22 | | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 8.4 | | 0.20 | 33 | | 0.79 |
| Tetrahydrofuran | 109-99-9 | 6.9 | | 5.0 | 20 | | 15 |
| Chloroform | 67-66-3 | 8.7 | | 0.20 | 42 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 8.8 | | 0.20 | 48 | | 1.1 |
| Cyclohexane | 110-82-7 | 8.9 | | 0.20 | 31 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 9.6 | | 0.20 | 60 | | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 8.5 | | 0.20 | 40 | | 0.93 |
| Benzene | 71-43-2 | 7.9 | | 0.20 | 25 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 8.2 | | 0.20 | 33 | | 0.81 |
| n-Heptane | 142-82-5 | 7.9 | | 0.20 | 32 | | 0.82 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

CA110106LCSD

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: CA110106

Date Analyzed: 11/01/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 8.4 | | 0.20 | 45 | | 1.1 |
| Methyl Methacrylate | 80-62-6 | 7.4 | | 0.50 | 30 | | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 7.8 | | 0.20 | 36 | | 0.92 |
| 1,4-Dioxane | 123-91-1 | 7.0 | | 5.0 | 25 | | 18 |
| Bromodichloromethane | 75-27-4 | 8.2 | | 0.20 | 55 | | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8.2 | | 0.20 | 37 | | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 8.8 | | 0.50 | 36 | | 2.0 |
| Toluene | 108-88-3 | 8.0 | | 0.20 | 30 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8.4 | | 0.20 | 38 | | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 8.3 | | 0.20 | 45 | | 1.1 |
| Tetrachloroethene | 127-18-4 | 8.7 | | 0.20 | 59 | | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 8.4 | | 0.50 | 34 | | 2.0 |
| Dibromochloromethane | 124-48-1 | 8.9 | | 0.20 | 76 | | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 8.7 | | 0.20 | 67 | | 1.5 |
| Chlorobenzene | 108-90-7 | 8.6 | | 0.20 | 40 | | 0.92 |
| Ethylbenzene | 100-41-4 | 8.0 | | 0.20 | 35 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 16 | | 0.50 | 69 | | 2.2 |
| Xylene (o) | 95-47-6 | 8.1 | | 0.20 | 35 | | 0.87 |
| Xylene (total) | 1330-20-7 | 24 | | 0.20 | 100 | | 0.87 |
| Styrene | 100-42-5 | 8.2 | | 0.20 | 35 | | 0.85 |
| Bromoform | 75-25-2 | 8.9 | | 0.20 | 92 | | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8.0 | | 0.20 | 55 | | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 7.9 | | 0.20 | 39 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 7.8 | | 0.20 | 38 | | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 8.3 | | 0.20 | 43 | | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 7.9 | | 0.20 | 39 | | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 9.7 | | 0.20 | 58 | | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 9.5 | | 0.20 | 57 | | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 9.6 | | 0.20 | 58 | | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 9.0 | | 0.50 | 67 | | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 8.8 | | 0.20 | 94 | | 2.1 |
| Naphthalene | 91-20-3 | 8.3 | | 0.50 | 44 | | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

MBLK103106CA

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK1031

Date Analyzed: 10/31/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.50 | U | 0.50 | 2.5 | U | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Chloromethane | 74-87-3 | 0.50 | U | 0.50 | 1.0 | U | 1.0 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.50 | U | 0.50 | 1.3 | U | 1.3 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Freon TF | 76-13-1 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Acetone | 67-64-1 | 5.0 | U | 5.0 | 12 | U | 12 |
| Isopropyl Alcohol | 67-63-0 | 5.0 | U | 5.0 | 12 | U | 12 |
| Carbon Disulfide | 75-15-0 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methylene Chloride | 75-09-2 | 0.50 | U | 0.50 | 1.7 | U | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 5.0 | U | 5.0 | 15 | U | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 0.50 | U | 0.50 | 1.5 | U | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Tetrahydrofuran | 109-99-9 | 5.0 | U | 5.0 | 15 | U | 15 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.20 | U | 0.20 | 0.69 | U | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.20 | U | 0.20 | 0.64 | U | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.20 | U | 0.20 | 0.82 | U | 0.82 |

TO-14/15
Result Summary

CLIENT SAMPLE NO.

MBLK103106CA

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK1031

Date Analyzed: 10/31/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Methyl Methacrylate | 80-62-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| 1,4-Dioxane | 123-91-1 | 5.0 | U | 5.0 | 18 | U | 18 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Toluene | 108-88-3 | 0.20 | U | 0.20 | 0.75 | U | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Chlorobenzene | 108-90-7 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Ethylbenzene | 100-41-4 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.50 | U | 0.50 | 2.2 | U | 2.2 |
| Xylene (o) | 95-47-6 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (total) | 1330-20-7 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Styrene | 100-42-5 | 0.20 | U | 0.20 | 0.85 | U | 0.85 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 0.20 | U | 0.20 | 1.0 | U | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.50 | U | 0.50 | 3.7 | U | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| Naphthalene | 91-20-3 | 0.50 | U | 0.50 | 2.6 | U | 2.6 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

MBLK110106CA

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK1101

Date Analyzed: 11/01/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.50 | U | 0.50 | 2.5 | U | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Chloromethane | 74-87-3 | 0.50 | U | 0.50 | 1.0 | U | 1.0 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.50 | U | 0.50 | 1.3 | U | 1.3 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Freon TF | 76-13-1 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Acetone | 67-64-1 | 5.0 | U | 5.0 | 12 | U | 12 |
| Isopropyl Alcohol | 67-63-0 | 5.0 | U | 5.0 | 12 | U | 12 |
| Carbon Disulfide | 75-15-0 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methylene Chloride | 75-09-2 | 0.50 | U | 0.50 | 1.7 | U | 1.7 |
| tert-Butyl Alcohol | 75-65-0 | 5.0 | U | 5.0 | 15 | U | 15 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Methyl Ethyl Ketone | 78-93-3 | 0.50 | U | 0.50 | 1.5 | U | 1.5 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Tetrahydrofuran | 109-99-9 | 5.0 | U | 5.0 | 15 | U | 15 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.20 | U | 0.20 | 0.69 | U | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.20 | U | 0.20 | 0.64 | U | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.20 | U | 0.20 | 0.82 | U | 0.82 |

TO-14/15
**Result Summary**

CLIENT SAMPLE NO.

MBLK110106CA

Lab Name: STL Burlington

SDG Number: NY117081

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK1101

Date Analyzed: 11/01/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Methyl Methacrylate | 80-62-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| 1,4-Dioxane | 123-91-1 | 5.0 | U | 5.0 | 18 | U | 18 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Methyl Isobutyl Ketone | 108-10-1 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Toluene | 108-88-3 | 0.20 | U | 0.20 | 0.75 | U | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Methyl Butyl Ketone | 591-78-6 | 0.50 | U | 0.50 | 2.0 | U | 2.0 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Chlorobenzene | 108-90-7 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Ethylbenzene | 100-41-4 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.50 | U | 0.50 | 2.2 | U | 2.2 |
| Xylene (o) | 95-47-6 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (total) | 1330-20-7 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Styrene | 100-42-5 | 0.20 | U | 0.20 | 0.85 | U | 0.85 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 2-Chlorotoluene | 95-49-8 | 0.20 | U | 0.20 | 1.0 | U | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.20 | U | 0.20 | 1.2 | U | 1.2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.50 | U | 0.50 | 3.7 | U | 3.7 |
| Hexachlorobutadiene | 87-68-3 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| Naphthalene | 91-20-3 | 0.50 | U | 0.50 | 2.6 | U | 2.6 |

## TO-14/15
## Result Summary

CLIENT SAMPLE NO.

WSA-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689152

Date Analyzed: 11/02/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 7.3 | | 0.50 | 36 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 1.3 | | 0.20 | 7.3 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 3.0 | | 0.50 | 11 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 28 | | 0.20 | 140 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.40 | | 0.20 | 2.2 | | 1.1 |
| Cyclohexane | 110-82-7 | 1.2 | | 0.20 | 4.1 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 1.1 | | 0.20 | 3.5 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 1.1 | | 0.20 | 4.5 | | 0.82 |
| Trichloroethene | 79-01-6 | 24 | | 0.20 | 130 | | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 3.0 | | 0.20 | 11 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

WSA-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689152

Date Analyzed: 11/02/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.50 | U | 0.50 | 2.2 | U | 2.2 |
| Xylene (o) | 95-47-6 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (total) | 1330-20-7 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |

## TO-14/15
## Result Summary

CLIENT SAMPLE NO.

WSA-SSV1/D

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689153

Date Analyzed: 11/02/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 6.9 | | 0.50 | 34 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 1.3 | | 0.20 | 7.3 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 3.0 | | 0.50 | 11 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 25 | | 0.20 | 120 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.43 | | 0.20 | 2.3 | | 1.1 |
| Cyclohexane | 110-82-7 | 1.2 | | 0.20 | 4.1 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 1.1 | | 0.20 | 3.5 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 1.2 | | 0.20 | 4.9 | | 0.82 |
| Trichloroethene | 79-01-6 | 24 | | 0.20 | 130 | | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 3.1 | | 0.20 | 12 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

WSA-SSV1/D

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689153

Date Analyzed: 11/02/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.50 | U | 0.50 | 2.2 | U | 2.2 |
| Xylene (o) | 95-47-6 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (total) | 1330-20-7 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | | 0.20 | 0.98 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B785-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689154

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 51 | | 35 | 250 | | 170 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 14 | U | 14 | 98 | U | 98 |
| Vinyl Chloride | 75-01-4 | 14 | U | 14 | 36 | U | 36 |
| 1,3-Butadiene | 106-99-0 | 35 | U | 35 | 77 | U | 77 |
| Bromomethane | 74-83-9 | 14 | U | 14 | 54 | U | 54 |
| Chloroethane | 75-00-3 | 14 | U | 14 | 37 | U | 37 |
| Bromoethene | 593-60-2 | 14 | U | 14 | 61 | U | 61 |
| Trichlorofluoromethane | 75-69-4 | 14 | U | 14 | 79 | U | 79 |
| 1,1-Dichloroethene | 75-35-4 | 14 | U | 14 | 56 | U | 56 |
| 3-Chloropropene | 107-05-1 | 35 | U | 35 | 110 | U | 110 |
| Methyl tert-Butyl Ether | 1634-04-4 | 35 | U | 35 | 130 | U | 130 |
| trans-1,2-Dichloroethene | 156-60-5 | 14 | U | 14 | 56 | U | 56 |
| n-Hexane | 110-54-3 | 64 | | 35 | 230 | | 120 |
| 1,1-Dichloroethane | 75-34-3 | 14 | U | 14 | 57 | U | 57 |
| 1,2-Dichloroethene (total) | 540-59-0 | 19 | | 14 | 75 | | 56 |
| cis-1,2-Dichloroethene | 156-59-2 | 19 | | 14 | 75 | | 56 |
| Chloroform | 67-66-3 | 38 | | 14 | 190 | | 68 |
| 1,1,1-Trichloroethane | 71-55-6 | 14 | U | 14 | 76 | U | 76 |
| Cyclohexane | 110-82-7 | 25 | | 14 | 86 | | 48 |
| Carbon Tetrachloride | 56-23-5 | 14 | U | 14 | 88 | U | 88 |
| 2,2,4-Trimethylpentane | 540-84-1 | 14 | U | 14 | 65 | U | 65 |
| Benzene | 71-43-2 | 14 | U | 14 | 45 | U | 45 |
| 1,2-Dichloroethane | 107-06-2 | 14 | U | 14 | 57 | U | 57 |
| n-Heptane | 142-82-5 | 22 | | 14 | 90 | | 57 |
| Trichloroethene | 79-01-6 | 2100 | | 14 | 11000 | | 75 |
| 1,2-Dichloropropane | 78-87-5 | 14 | U | 14 | 65 | U | 65 |
| Bromodichloromethane | 75-27-4 | 14 | U | 14 | 94 | U | 94 |
| cis-1,3-Dichloropropene | 10061-01-5 | 14 | U | 14 | 64 | U | 64 |
| Toluene | 108-88-3 | 16 | | 14 | 60 | | 53 |
| trans-1,3-Dichloropropene | 10061-02-6 | 14 | U | 14 | 64 | U | 64 |
| 1,1,2-Trichloroethane | 79-00-5 | 14 | U | 14 | 76 | U | 76 |
| Tetrachloroethene | 127-18-4 | 14 | U | 14 | 95 | U | 95 |
| Dibromochloromethane | 124-48-1 | 14 | U | 14 | 120 | U | 120 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B785-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689154

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 14 | U | 14 | 110 | U | 110 |
| Ethylbenzene | 100-41-4 | 14 | U | 14 | 61 | U | 61 |
| Xylene (m,p) | 1330-20-7 | 35 | U | 35 | 150 | U | 150 |
| Xylene (o) | 95-47-6 | 14 | U | 14 | 61 | U | 61 |
| Xylene (total) | 1330-20-7 | 14 | U | 14 | 61 | U | 61 |
| Bromoform | 75-25-2 | 14 | U | 14 | 140 | U | 140 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 14 | U | 14 | 96 | U | 96 |
| 4-Ethyltoluene | 622-96-8 | 14 | U | 14 | 69 | U | 69 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 14 | U | 14 | 69 | U | 69 |

## TO-14/15
## Result Summary

CLIENT SAMPLE NO.

B785-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689155

Date Analyzed: 11/02/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 7.5 | U | 7.5 | 37 | U | 37 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 3.0 | U | 3.0 | 21 | U | 21 |
| Vinyl Chloride | 75-01-4 | 3.0 | U | 3.0 | 7.7 | U | 7.7 |
| 1,3-Butadiene | 106-99-0 | 7.5 | U | 7.5 | 17 | U | 17 |
| Bromomethane | 74-83-9 | 3.0 | U | 3.0 | 12 | U | 12 |
| Chloroethane | 75-00-3 | 3.0 | U | 3.0 | 7.9 | U | 7.9 |
| Bromoethene | 593-60-2 | 3.0 | U | 3.0 | 13 | U | 13 |
| Trichlorofluoromethane | 75-69-4 | 3.0 | U | 3.0 | 17 | U | 17 |
| 1,1-Dichloroethene | 75-35-4 | 3.0 | U | 3.0 | 12 | U | 12 |
| 3-Chloropropene | 107-05-1 | 7.5 | U | 7.5 | 23 | U | 23 |
| Methyl tert-Butyl Ether | 1634-04-4 | 7.5 | U | 7.5 | 27 | U | 27 |
| trans-1,2-Dichloroethene | 156-60-5 | 3.0 | U | 3.0 | 12 | U | 12 |
| n-Hexane | 110-54-3 | 14 | | 7.5 | 49 | | 26 |
| 1,1-Dichloroethane | 75-34-3 | 3.0 | U | 3.0 | 12 | U | 12 |
| 1,2-Dichloroethene (total) | 540-59-0 | 3.0 | U | 3.0 | 12 | U | 12 |
| cis-1,2-Dichloroethene | 156-59-2 | 3.0 | U | 3.0 | 12 | U | 12 |
| Chloroform | 67-66-3 | 6.5 | | 3.0 | 32 | | 15 |
| 1,1,1-Trichloroethane | 71-55-6 | 6.4 | | 3.0 | 35 | | 16 |
| Cyclohexane | 110-82-7 | 5.9 | | 3.0 | 20 | | 10 |
| Carbon Tetrachloride | 56-23-5 | 3.0 | U | 3.0 | 19 | U | 19 |
| 2,2,4-Trimethylpentane | 540-84-1 | 3.0 | U | 3.0 | 14 | U | 14 |
| Benzene | 71-43-2 | 4.6 | | 3.0 | 15 | | 9.6 |
| 1,2-Dichloroethane | 107-06-2 | 3.0 | U | 3.0 | 12 | U | 12 |
| n-Heptane | 142-82-5 | 4.5 | | 3.0 | 18 | | 12 |
| Trichloroethene | 79-01-6 | 430 | | 3.0 | 2300 | | 16 |
| 1,2-Dichloropropane | 78-87-5 | 3.0 | U | 3.0 | 14 | U | 14 |
| Bromodichloromethane | 75-27-4 | 3.0 | U | 3.0 | 20 | U | 20 |
| cis-1,3-Dichloropropene | 10061-01-5 | 3.0 | U | 3.0 | 14 | U | 14 |
| Toluene | 108-88-3 | 3.4 | | 3.0 | 13 | | 11 |
| trans-1,3-Dichloropropene | 10061-02-6 | 3.0 | U | 3.0 | 14 | U | 14 |
| 1,1,2-Trichloroethane | 79-00-5 | 3.0 | U | 3.0 | 16 | U | 16 |
| Tetrachloroethene | 127-18-4 | 3.0 | U | 3.0 | 20 | U | 20 |
| Dibromochloromethane | 124-48-1 | 3.0 | U | 3.0 | 26 | U | 26 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B785-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689155

Date Analyzed: 11/02/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 3.0 | U | 3.0 | 23 | U | 23 |
| Ethylbenzene | 100-41-4 | 3.0 | U | 3.0 | 13 | U | 13 |
| Xylene (m,p) | 1330-20-7 | 7.5 | U | 7.5 | 33 | U | 33 |
| Xylene (o) | 95-47-6 | 3.0 | U | 3.0 | 13 | U | 13 |
| Xylene (total) | 1330-20-7 | 3.0 | U | 3.0 | 13 | U | 13 |
| Bromoform | 75-25-2 | 3.0 | U | 3.0 | 31 | U | 31 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 3.0 | U | 3.0 | 21 | U | 21 |
| 4-Ethyltoluene | 622-96-8 | 3.0 | U | 3.0 | 15 | U | 15 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 3.0 | U | 3.0 | 15 | U | 15 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B784-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689156

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.62 | | 0.50 | 3.1 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.28 | | 0.20 | 1.6 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 12 | | 0.50 | 42 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 2.1 | | 0.20 | 11 | | 1.1 |
| Cyclohexane | 110-82-7 | 4.0 | | 0.20 | 14 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 3.5 | | 0.20 | 11 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 11 | | 0.20 | 45 | | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 6.0 | | 0.20 | 23 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B784-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689156

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 2.9 | | 0.20 | 13 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 3.4 | | 0.50 | 15 | | 2.2 |
| Xylene (o) | 95-47-6 | 1.2 | | 0.20 | 5.2 | | 0.87 |
| Xylene (total) | 1330-20-7 | 4.7 | | 0.20 | 20 | | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 1.1 | | 0.20 | 5.4 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1.6 | | 0.20 | 7.9 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B784-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689157

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.62 | | 0.50 | 3.1 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.35 | | 0.20 | 2.0 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.54 | | 0.50 | 1.9 | | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 19 | | 0.50 | 67 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 2.3 | | 0.20 | 13 | | 1.1 |
| Cyclohexane | 110-82-7 | 7.4 | | 0.20 | 25 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 3.9 | | 0.20 | 12 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 12 | | 0.20 | 49 | | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 9.0 | | 0.20 | 34 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B784-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689157

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results In ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 2.2 | | 0.20 | 9.6 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 3.1 | | 0.50 | 13 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.90 | | 0.20 | 3.9 | | 0.87 |
| Xylene (total) | 1330-20-7 | 4.0 | | 0.20 | 17 | | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.30 | | 0.20 | 1.5 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.40 | | 0.20 | 2.0 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

OBGWV-TB1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689158

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 8.0 | | 0.50 | 40 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.20 | U | 0.20 | 0.69 | U | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.20 | U | 0.20 | 0.64 | U | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.20 | U | 0.20 | 0.82 | U | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 0.20 | U | 0.20 | 0.75 | U | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

OBGWV-TB1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689158

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.50 | U | 0.50 | 2.2 | U | 2.2 |
| Xylene (o) | 95-47-6 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (total) | 1330-20-7 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B786-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689159

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 390 | | 200 | 1900 | | 990 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 78 | U | 78 | 550 | U | 550 |
| Vinyl Chloride | 75-01-4 | 78 | U | 78 | 200 | U | 200 |
| 1,3-Butadiene | 106-99-0 | 200 | U | 200 | 440 | U | 440 |
| Bromomethane | 74-83-9 | 78 | U | 78 | 300 | U | 300 |
| Chloroethane | 75-00-3 | 78 | U | 78 | 210 | U | 210 |
| Bromoethene | 593-60-2 | 78 | U | 78 | 340 | U | 340 |
| Trichlorofluoromethane | 75-69-4 | 78 | U | 78 | 440 | U | 440 |
| 1,1-Dichloroethene | 75-35-4 | 78 | U | 78 | 310 | U | 310 |
| 3-Chloropropene | 107-05-1 | 200 | U | 200 | 630 | U | 630 |
| Methyl tert-Butyl Ether | 1634-04-4 | 200 | U | 200 | 720 | U | 720 |
| trans-1,2-Dichloroethene | 156-60-5 | 78 | U | 78 | 310 | U | 310 |
| n-Hexane | 110-54-3 | 200 | U | 200 | 700 | U | 700 |
| 1,1-Dichloroethane | 75-34-3 | 78 | U | 78 | 320 | U | 320 |
| 1,2-Dichloroethene (total) | 540-59-0 | 120 | | 78 | 480 | | 310 |
| cis-1,2-Dichloroethene | 156-59-2 | 120 | | 78 | 480 | | 310 |
| Chloroform | 67-66-3 | 78 | U | 78 | 380 | U | 380 |
| 1,1,1-Trichloroethane | 71-55-6 | 78 | U | 78 | 430 | U | 430 |
| Cyclohexane | 110-82-7 | 78 | U | 78 | 270 | U | 270 |
| Carbon Tetrachloride | 56-23-5 | 78 | U | 78 | 490 | U | 490 |
| 2,2,4-Trimethylpentane | 540-84-1 | 78 | U | 78 | 360 | U | 360 |
| Benzene | 71-43-2 | 78 | U | 78 | 250 | U | 250 |
| 1,2-Dichloroethane | 107-06-2 | 78 | U | 78 | 320 | U | 320 |
| n-Heptane | 142-82-5 | 78 | U | 78 | 320 | U | 320 |
| Trichloroethene | 79-01-6 | 15000 | | 78 | 81000 | | 420 |
| 1,2-Dichloropropane | 78-87-5 | 78 | U | 78 | 360 | U | 360 |
| Bromodichloromethane | 75-27-4 | 78 | U | 78 | 520 | U | 520 |
| cis-1,3-Dichloropropene | 10061-01-5 | 78 | U | 78 | 350 | U | 350 |
| Toluene | 108-88-3 | 78 | U | 78 | 290 | U | 290 |
| trans-1,3-Dichloropropene | 10061-02-6 | 78 | U | 78 | 350 | U | 350 |
| 1,1,2-Trichloroethane | 79-00-5 | 78 | U | 78 | 430 | U | 430 |
| Tetrachloroethene | 127-18-4 | 320 | | 78 | 2200 | | 530 |
| Dibromochloromethane | 124-48-1 | 78 | U | 78 | 660 | U | 660 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B786-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689159

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 78 | U | 78 | 600 | U | 600 |
| Ethylbenzene | 100-41-4 | 78 | U | 78 | 340 | U | 340 |
| Xylene (m,p) | 1330-20-7 | 200 | U | 200 | 870 | U | 870 |
| Xylene (o) | 95-47-6 | 78 | U | 78 | 340 | U | 340 |
| Xylene (total) | 1330-20-7 | 78 | U | 78 | 340 | U | 340 |
| Bromoform | 75-25-2 | 78 | U | 78 | 810 | U | 810 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 78 | U | 78 | 540 | U | 540 |
| 4-Ethyltoluene | 622-96-8 | 78 | U | 78 | 380 | U | 380 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 78 | U | 78 | 380 | U | 380 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B786-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689160

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 26 | | 15 | 130 | | 74 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 6.0 | U | 6.0 | 42 | U | 42 |
| Vinyl Chloride | 75-01-4 | 6.0 | U | 6.0 | 15 | U | 15 |
| 1,3-Butadiene | 106-99-0 | 15 | U | 15 | 33 | U | 33 |
| Bromomethane | 74-83-9 | 6.0 | U | 6.0 | 23 | U | 23 |
| Chloroethane | 75-00-3 | 6.0 | U | 6.0 | 16 | U | 16 |
| Bromoethene | 593-60-2 | 6.0 | U | 6.0 | 26 | U | 26 |
| Trichlorofluoromethane | 75-69-4 | 6.0 | U | 6.0 | 34 | U | 34 |
| 1,1-Dichloroethene | 75-35-4 | 6.0 | U | 6.0 | 24 | U | 24 |
| 3-Chloropropene | 107-05-1 | 15 | U | 15 | 47 | U | 47 |
| Methyl tert-Butyl Ether | 1634-04-4 | 15 | U | 15 | 54 | U | 54 |
| trans-1,2-Dichloroethene | 156-60-5 | 6.0 | U | 6.0 | 24 | U | 24 |
| n-Hexane | 110-54-3 | 25 | | 15 | 88 | | 53 |
| 1,1-Dichloroethane | 75-34-3 | 6.0 | U | 6.0 | 24 | U | 24 |
| 1,2-Dichloroethene (total) | 540-59-0 | 6.0 | U | 6.0 | 24 | U | 24 |
| cis-1,2-Dichloroethene | 156-59-2 | 6.0 | U | 6.0 | 24 | U | 24 |
| Chloroform | 67-66-3 | 6.0 | U | 6.0 | 29 | U | 29 |
| 1,1,1-Trichloroethane | 71-55-6 | 6.0 | U | 6.0 | 33 | U | 33 |
| Cyclohexane | 110-82-7 | 8.9 | | 6.0 | 31 | | 21 |
| Carbon Tetrachloride | 56-23-5 | 6.0 | U | 6.0 | 38 | U | 38 |
| 2,2,4-Trimethylpentane | 540-84-1 | 6.0 | U | 6.0 | 28 | U | 28 |
| Benzene | 71-43-2 | 7.4 | | 6.0 | 24 | | 19 |
| 1,2-Dichloroethane | 107-06-2 | 6.0 | U | 6.0 | 24 | U | 24 |
| n-Heptane | 142-82-5 | 10 | | 6.0 | 41 | | 25 |
| Trichloroethene | 79-01-6 | 880 | | 6.0 | 4700 | | 32 |
| 1,2-Dichloropropane | 78-87-5 | 6.0 | U | 6.0 | 28 | U | 28 |
| Bromodichloromethane | 75-27-4 | 6.0 | U | 6.0 | 40 | U | 40 |
| cis-1,3-Dichloropropene | 10061-01-5 | 6.0 | U | 6.0 | 27 | U | 27 |
| Toluene | 108-88-3 | 6.0 | U | 6.0 | 23 | U | 23 |
| trans-1,3-Dichloropropene | 10061-02-6 | 6.0 | U | 6.0 | 27 | U | 27 |
| 1,1,2-Trichloroethane | 79-00-5 | 6.0 | U | 6.0 | 33 | U | 33 |
| Tetrachloroethene | 127-18-4 | 6.0 | U | 6.0 | 41 | U | 41 |
| Dibromochloromethane | 124-48-1 | 6.0 | U | 6.0 | 51 | U | 51 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B786-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689160

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 6.0 | U | 6.0 | 46 | U | 46 |
| Ethylbenzene | 100-41-4 | 6.0 | U | 6.0 | 26 | U | 26 |
| Xylene (m,p) | 1330-20-7 | 15 | U | 15 | 65 | U | 65 |
| Xylene (o) | 95-47-6 | 6.0 | U | 6.0 | 26 | U | 26 |
| Xylene (total) | 1330-20-7 | 6.0 | U | 6.0 | 26 | U | 26 |
| Bromoform | 75-25-2 | 6.0 | U | 6.0 | 62 | U | 62 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 6.0 | U | 6.0 | 41 | U | 41 |
| 4-Ethyltoluene | 622-96-8 | 6.0 | U | 6.0 | 29 | U | 29 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 6.0 | U | 6.0 | 29 | U | 29 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B786-SSV2/D

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689161

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 2.5 | U | 2.5 | 12 | U | 12 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 1.0 | U | 1.0 | 7.0 | U | 7.0 |
| Vinyl Chloride | 75-01-4 | 1.0 | U | 1.0 | 2.6 | U | 2.6 |
| 1,3-Butadiene | 106-99-0 | 2.5 | U | 2.5 | 5.5 | U | 5.5 |
| Bromomethane | 74-83-9 | 1.0 | U | 1.0 | 3.9 | U | 3.9 |
| Chloroethane | 75-00-3 | 1.0 | U | 1.0 | 2.6 | U | 2.6 |
| Bromoethene | 593-60-2 | 1.0 | U | 1.0 | 4.4 | U | 4.4 |
| Trichlorofluoromethane | 75-69-4 | 1.0 | U | 1.0 | 5.6 | U | 5.6 |
| 1,1-Dichloroethene | 75-35-4 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| 3-Chloropropene | 107-05-1 | 2.5 | U | 2.5 | 7.8 | U | 7.8 |
| Methyl tert-Butyl Ether | 1634-04-4 | 2.5 | U | 2.5 | 9.0 | U | 9.0 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| n-Hexane | 110-54-3 | 6.4 | | 2.5 | 23 | | 8.8 |
| 1,1-Dichloroethane | 75-34-3 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| 1,2-Dichloroethene (total) | 540-59-0 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| cis-1,2-Dichloroethene | 156-59-2 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| Chloroform | 67-66-3 | 1.0 | U | 1.0 | 4.9 | U | 4.9 |
| 1,1,1-Trichloroethane | 71-55-6 | 1.0 | U | 1.0 | 5.5 | U | 5.5 |
| Cyclohexane | 110-82-7 | 2.8 | | 1.0 | 9.6 | | 3.4 |
| Carbon Tetrachloride | 56-23-5 | 1.0 | U | 1.0 | 6.3 | U | 6.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 1.0 | U | 1.0 | 4.7 | U | 4.7 |
| Benzene | 71-43-2 | 2.8 | | 1.0 | 8.9 | | 3.2 |
| 1,2-Dichloroethane | 107-06-2 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| n-Heptane | 142-82-5 | 2.1 | | 1.0 | 8.6 | | 4.1 |
| Trichloroethene | 79-01-6 | 130 | | 1.0 | 700 | | 5.4 |
| 1,2-Dichloropropane | 78-87-5 | 1.0 | U | 1.0 | 4.6 | U | 4.6 |
| Bromodichloromethane | 75-27-4 | 1.0 | U | 1.0 | 6.7 | U | 6.7 |
| cis-1,3-Dichloropropene | 10061-01-5 | 1.0 | U | 1.0 | 4.5 | U | 4.5 |
| Toluene | 108-88-3 | 3.1 | | 1.0 | 12 | | 3.8 |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.0 | U | 1.0 | 4.5 | U | 4.5 |
| 1,1,2-Trichloroethane | 79-00-5 | 1.0 | U | 1.0 | 5.5 | U | 5.5 |
| Tetrachloroethene | 127-18-4 | 1.0 | U | 1.0 | 6.8 | U | 6.8 |
| Dibromochloromethane | 124-48-1 | 1.0 | U | 1.0 | 8.5 | U | 8.5 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B786-SSV2/D

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689161

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 1.0 | U | 1.0 | 7.7 | U | 7.7 |
| Ethylbenzene | 100-41-4 | 1.0 | U | 1.0 | 4.3 | U | 4.3 |
| Xylene (m,p) | 1330-20-7 | 2.5 | U | 2.5 | 11 | U | 11 |
| Xylene (o) | 95-47-6 | 1.0 | U | 1.0 | 4.3 | U | 4.3 |
| Xylene (total) | 1330-20-7 | 1.0 | U | 1.0 | 4.3 | U | 4.3 |
| Bromoform | 75-25-2 | 1.0 | U | 1.0 | 10 | U | 10 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1.0 | U | 1.0 | 6.9 | U | 6.9 |
| 4-Ethyltoluene | 622-96-8 | 1.0 | U | 1.0 | 4.9 | U | 4.9 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1.0 | U | 1.0 | 4.9 | U | 4.9 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B783-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689162

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.54 | | 0.50 | 2.7 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.23 | | 0.20 | 1.3 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 17 | | 0.50 | 60 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.74 | | 0.20 | 3.6 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.31 | | 0.20 | 1.7 | | 1.1 |
| Cyclohexane | 110-82-7 | 11 | | 0.20 | 38 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 6.0 | | 0.20 | 19 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 3.6 | | 0.20 | 15 | | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 1.7 | | 0.20 | 6.4 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B783-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689162

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.50 | U | 0.50 | 2.2 | U | 2.2 |
| Xylene (o) | 95-47-6 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (total) | 1330-20-7 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B783-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689163

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.58 | | 0.50 | 2.9 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.26 | | 0.20 | 1.5 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 7.8 | | 0.50 | 27 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 6.8 | | 0.20 | 23 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | | 0.20 | 0.93 | | 0.93 |
| Benzene | 71-43-2 | 2.5 | | 0.20 | 8.0 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 4.1 | | 0.20 | 17 | | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 2.8 | | 0.20 | 11 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B783-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689163

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 1.0 | | 0.20 | 4.3 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 3.0 | | 0.50 | 13 | | 2.2 |
| Xylene (o) | 95-47-6 | 1.3 | | 0.20 | 5.6 | | 0.87 |
| Xylene (total) | 1330-20-7 | 4.3 | | 0.20 | 19 | | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.40 | | 0.20 | 2.0 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.40 | | 0.20 | 2.0 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B782-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689164

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.58 | | 0.50 | 2.9 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.27 | | 0.20 | 1.5 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 2.3 | | 0.50 | 8.1 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.95 | | 0.20 | 3.3 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.97 | | 0.20 | 3.1 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 1.8 | | 0.20 | 7.4 | | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 2.3 | | 0.20 | 8.7 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 2.4 | | 0.20 | 16 | | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B782-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689164

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 2.9 | | 0.20 | 13 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 1.1 | | 0.50 | 4.8 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.46 | | 0.20 | 2.0 | | 0.87 |
| Xylene (total) | 1330-20-7 | 1.6 | | 0.20 | 6.9 | | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.29 | | 0.20 | 1.4 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.31 | | 0.20 | 1.5 | | 0.98 |

## TO-14/15
## Result Summary

CLIENT SAMPLE NO.

B782-SSV1/D

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689165

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.56 | | 0.50 | 2.8 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.30 | | 0.20 | 1.7 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 2.4 | | 0.50 | 8.5 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.83 | | 0.20 | 2.9 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 1.0 | | 0.20 | 3.2 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 1.6 | | 0.20 | 6.6 | | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 2.4 | | 0.20 | 9.0 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 2.5 | | 0.20 | 17 | | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B782-SSV1/D

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689165

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 2.9 | | 0.20 | 13 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 1.1 | | 0.50 | 4.8 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.49 | | 0.20 | 2.1 | | 0.87 |
| Xylene (total) | 1330-20-7 | 1.6 | | 0.20 | 6.9 | | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.31 | | 0.20 | 1.5 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.25 | | 0.20 | 1.2 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B782-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689166

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.70 | | 0.50 | 3.5 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.32 | | 0.20 | 1.8 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 2.3 | | 0.50 | 8.1 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 3.0 | | 0.20 | 16 | | 1.1 |
| Cyclohexane | 110-82-7 | 0.76 | | 0.20 | 2.6 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.63 | | 0.20 | 2.0 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 1.5 | | 0.20 | 6.1 | | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 1.9 | | 0.20 | 7.2 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

B782-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689166

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 3.0 | | 0.20 | 13 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.94 | | 0.50 | 4.1 | | 2.2 |
| Xylene (o) | 95-47-6 | 0.35 | | 0.20 | 1.5 | | 0.87 |
| Xylene (total) | 1330-20-7 | 1.3 | | 0.20 | 5.6 | | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.33 | | 0.20 | 1.6 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.29 | | 0.20 | 1.4 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

774-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689167

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 5.0 | U | 5.0 | 25 | U | 25 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 2.0 | U | 2.0 | 14 | U | 14 |
| Vinyl Chloride | 75-01-4 | 2.0 | U | 2.0 | 5.1 | U | 5.1 |
| 1,3-Butadiene | 106-99-0 | 5.0 | U | 5.0 | 11 | U | 11 |
| Bromomethane | 74-83-9 | 2.0 | U | 2.0 | 7.8 | U | 7.8 |
| Chloroethane | 75-00-3 | 2.0 | U | 2.0 | 5.3 | U | 5.3 |
| Bromoethene | 593-60-2 | 2.0 | U | 2.0 | 8.7 | U | 8.7 |
| Trichlorofluoromethane | 75-69-4 | 64 | | 2.0 | 360 | | 11 |
| 1,1-Dichloroethene | 75-35-4 | 2.0 | U | 2.0 | 7.9 | U | 7.9 |
| 3-Chloropropene | 107-05-1 | 5.0 | U | 5.0 | 16 | U | 16 |
| Methyl tert-Butyl Ether | 1634-04-4 | 5.0 | U | 5.0 | 18 | U | 18 |
| trans-1,2-Dichloroethene | 156-60-5 | 2.0 | U | 2.0 | 7.9 | U | 7.9 |
| n-Hexane | 110-54-3 | 12 | | 5.0 | 42 | | 18 |
| 1,1-Dichloroethane | 75-34-3 | 2.0 | U | 2.0 | 8.1 | U | 8.1 |
| 1,2-Dichloroethene (total) | 540-59-0 | 2.0 | U | 2.0 | 7.9 | U | 7.9 |
| cis-1,2-Dichloroethene | 156-59-2 | 2.0 | U | 2.0 | 7.9 | U | 7.9 |
| Chloroform | 67-66-3 | 4.0 | | 2.0 | 20 | | 9.8 |
| 1,1,1-Trichloroethane | 71-55-6 | 10 | | 2.0 | 55 | | 11 |
| Cyclohexane | 110-82-7 | 4.3 | | 2.0 | 15 | | 6.9 |
| Carbon Tetrachloride | 56-23-5 | 2.0 | U | 2.0 | 13 | U | 13 |
| 2,2,4-Trimethylpentane | 540-84-1 | 2.0 | U | 2.0 | 9.3 | U | 9.3 |
| Benzene | 71-43-2 | 3.0 | | 2.0 | 9.6 | | 6.4 |
| 1,2-Dichloroethane | 107-06-2 | 2.0 | U | 2.0 | 8.1 | U | 8.1 |
| n-Heptane | 142-82-5 | 8.4 | | 2.0 | 34 | | 8.2 |
| Trichloroethene | 79-01-6 | 310 | | 2.0 | 1700 | | 11 |
| 1,2-Dichloropropane | 78-87-5 | 2.0 | U | 2.0 | 9.2 | U | 9.2 |
| Bromodichloromethane | 75-27-4 | 2.0 | U | 2.0 | 13 | U | 13 |
| cis-1,3-Dichloropropene | 10061-01-5 | 2.0 | U | 2.0 | 9.1 | U | 9.1 |
| Toluene | 108-88-3 | 6.2 | | 2.0 | 23 | | 7.5 |
| trans-1,3-Dichloropropene | 10061-02-6 | 2.0 | U | 2.0 | 9.1 | U | 9.1 |
| 1,1,2-Trichloroethane | 79-00-5 | 2.0 | U | 2.0 | 11 | U | 11 |
| Tetrachloroethene | 127-18-4 | 2.0 | U | 2.0 | 14 | U | 14 |
| Dibromochloromethane | 124-48-1 | 2.0 | U | 2.0 | 17 | U | 17 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

774-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689167

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 2.0 | U | 2.0 | 15 | U | 15 |
| Ethylbenzene | 100-41-4 | 2.0 | U | 2.0 | 8.7 | U | 8.7 |
| Xylene (m,p) | 1330-20-7 | 5.0 | U | 5.0 | 22 | U | 22 |
| Xylene (o) | 95-47-6 | 2.0 | U | 2.0 | 8.7 | U | 8.7 |
| Xylene (total) | 1330-20-7 | 2.0 | U | 2.0 | 8.7 | U | 8.7 |
| Bromoform | 75-25-2 | 2.0 | U | 2.0 | 21 | U | 21 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 2.0 | U | 2.0 | 14 | U | 14 |
| 4-Ethyltoluene | 622-96-8 | 2.0 | U | 2.0 | 9.8 | U | 9.8 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 2.0 | U | 2.0 | 9.8 | U | 9.8 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

774-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689168

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 2.5 | U | 2.5 | 12 | U | 12 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 1.0 | U | 1.0 | 7.0 | U | 7.0 |
| Vinyl Chloride | 75-01-4 | 1.0 | U | 1.0 | 2.6 | U | 2.6 |
| 1,3-Butadiene | 106-99-0 | 2.5 | U | 2.5 | 5.5 | U | 5.5 |
| Bromomethane | 74-83-9 | 1.0 | U | 1.0 | 3.9 | U | 3.9 |
| Chloroethane | 75-00-3 | 1.0 | U | 1.0 | 2.6 | U | 2.6 |
| Bromoethene | 593-60-2 | 1.0 | U | 1.0 | 4.4 | U | 4.4 |
| Trichlorofluoromethane | 75-69-4 | 14 | | 1.0 | 79 | | 5.6 |
| 1,1-Dichloroethene | 75-35-4 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| 3-Chloropropene | 107-05-1 | 2.5 | U | 2.5 | 7.8 | U | 7.8 |
| Methyl tert-Butyl Ether | 1634-04-4 | 2.5 | U | 2.5 | 9.0 | U | 9.0 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| n-Hexane | 110-54-3 | 2.8 | | 2.5 | 9.9 | | 8.8 |
| 1,1-Dichloroethane | 75-34-3 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| 1,2-Dichloroethene (total) | 540-59-0 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| cis-1,2-Dichloroethene | 156-59-2 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| Chloroform | 67-66-3 | 1.0 | U | 1.0 | 4.9 | U | 4.9 |
| 1,1,1-Trichloroethane | 71-55-6 | 5.2 | | 1.0 | 28 | | 5.5 |
| Cyclohexane | 110-82-7 | 1.0 | U | 1.0 | 3.4 | U | 3.4 |
| Carbon Tetrachloride | 56-23-5 | 1.0 | U | 1.0 | 6.3 | U | 6.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 1.0 | U | 1.0 | 4.7 | U | 4.7 |
| Benzene | 71-43-2 | 1.2 | | 1.0 | 3.8 | | 3.2 |
| 1,2-Dichloroethane | 107-06-2 | 1.0 | U | 1.0 | 4.0 | U | 4.0 |
| n-Heptane | 142-82-5 | 2.3 | | 1.0 | 9.4 | | 4.1 |
| Trichloroethene | 79-01-6 | 150 | | 1.0 | 810 | | 5.4 |
| 1,2-Dichloropropane | 78-87-5 | 1.0 | U | 1.0 | 4.6 | U | 4.6 |
| Bromodichloromethane | 75-27-4 | 1.0 | U | 1.0 | 6.7 | U | 6.7 |
| cis-1,3-Dichloropropene | 10061-01-5 | 1.0 | U | 1.0 | 4.5 | U | 4.5 |
| Toluene | 108-88-3 | 3.0 | | 1.0 | 11 | | 3.8 |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.0 | U | 1.0 | 4.5 | U | 4.5 |
| 1,1,2-Trichloroethane | 79-00-5 | 1.0 | U | 1.0 | 5.5 | U | 5.5 |
| Tetrachloroethene | 127-18-4 | 1.0 | U | 1.0 | 6.8 | U | 6.8 |
| Dibromochloromethane | 124-48-1 | 1.0 | U | 1.0 | 8.5 | U | 8.5 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

774-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689168

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 1.0 | U | 1.0 | 7.7 | U | 7.7 |
| Ethylbenzene | 100-41-4 | 1.0 | U | 1.0 | 4.3 | U | 4.3 |
| Xylene (m,p) | 1330-20-7 | 2.5 | U | 2.5 | 11 | U | 11 |
| Xylene (o) | 95-47-6 | 1.0 | U | 1.0 | 4.3 | U | 4.3 |
| Xylene (total) | 1330-20-7 | 1.0 | U | 1.0 | 4.3 | U | 4.3 |
| Bromoform | 75-25-2 | 1.0 | U | 1.0 | 10 | U | 10 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1.0 | U | 1.0 | 6.9 | U | 6.9 |
| 4-Ethyltoluene | 622-96-8 | 1.0 | U | 1.0 | 4.9 | U | 4.9 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1.0 | U | 1.0 | 4.9 | U | 4.9 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

776-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689169

Date Analyzed: 11/04/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 15 | U | 15 | 74 | U | 74 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 5.9 | U | 5.9 | 41 | U | 41 |
| Vinyl Chloride | 75-01-4 | 5.9 | U | 5.9 | 15 | U | 15 |
| 1,3-Butadiene | 106-99-0 | 15 | U | 15 | 33 | U | 33 |
| Bromomethane | 74-83-9 | 5.9 | U | 5.9 | 23 | U | 23 |
| Chloroethane | 75-00-3 | 5.9 | U | 5.9 | 16 | U | 16 |
| Bromoethene | 593-60-2 | 5.9 | U | 5.9 | 26 | U | 26 |
| Trichlorofluoromethane | 75-69-4 | 740 | | 5.9 | 4200 | | 33 |
| 1,1-Dichloroethene | 75-35-4 | 5.9 | U | 5.9 | 23 | U | 23 |
| 3-Chloropropene | 107-05-1 | 15 | U | 15 | 47 | U | 47 |
| Methyl tert-Butyl Ether | 1634-04-4 | 15 | U | 15 | 54 | U | 54 |
| trans-1,2-Dichloroethene | 156-60-5 | 5.9 | U | 5.9 | 23 | U | 23 |
| n-Hexane | 110-54-3 | 15 | U | 15 | 53 | U | 53 |
| 1,1-Dichloroethane | 75-34-3 | 5.9 | U | 5.9 | 24 | U | 24 |
| 1,2-Dichloroethene (total) | 540-59-0 | 5.9 | U | 5.9 | 23 | U | 23 |
| cis-1,2-Dichloroethene | 156-59-2 | 5.9 | U | 5.9 | 23 | U | 23 |
| Chloroform | 67-66-3 | 11 | | 5.9 | 54 | | 29 |
| 1,1,1-Trichloroethane | 71-55-6 | 6.1 | | 5.9 | 33 | | 32 |
| Cyclohexane | 110-82-7 | 5.9 | U | 5.9 | 20 | U | 20 |
| Carbon Tetrachloride | 56-23-5 | 5.9 | U | 5.9 | 37 | U | 37 |
| 2,2,4-Trimethylpentane | 540-84-1 | 5.9 | U | 5.9 | 28 | U | 28 |
| Benzene | 71-43-2 | 5.9 | U | 5.9 | 19 | U | 19 |
| 1,2-Dichloroethane | 107-06-2 | 5.9 | U | 5.9 | 24 | U | 24 |
| n-Heptane | 142-82-5 | 5.9 | U | 5.9 | 24 | U | 24 |
| Trichloroethene | 79-01-6 | 560 | | 5.9 | 3000 | | 32 |
| 1,2-Dichloropropane | 78-87-5 | 5.9 | U | 5.9 | 27 | U | 27 |
| Bromodichloromethane | 75-27-4 | 5.9 | U | 5.9 | 40 | U | 40 |
| cis-1,3-Dichloropropene | 10061-01-5 | 5.9 | U | 5.9 | 27 | U | 27 |
| Toluene | 108-88-3 | 5.9 | U | 5.9 | 22 | U | 22 |
| trans-1,3-Dichloropropene | 10061-02-6 | 5.9 | U | 5.9 | 27 | U | 27 |
| 1,1,2-Trichloroethane | 79-00-5 | 5.9 | U | 5.9 | 32 | U | 32 |
| Tetrachloroethene | 127-18-4 | 5.9 | U | 5.9 | 40 | U | 40 |
| Dibromochloromethane | 124-48-1 | 5.9 | U | 5.9 | 50 | U | 50 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

776-SSV1

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689169

Date Analyzed: 11/04/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 5.9 | U | 5.9 | 45 | U | 45 |
| Ethylbenzene | 100-41-4 | 5.9 | U | 5.9 | 26 | U | 26 |
| Xylene (m,p) | 1330-20-7 | 15 | U | 15 | 65 | U | 65 |
| Xylene (o) | 95-47-6 | 5.9 | U | 5.9 | 26 | U | 26 |
| Xylene (total) | 1330-20-7 | 5.9 | U | 5.9 | 26 | U | 26 |
| Bromoform | 75-25-2 | 5.9 | U | 5.9 | 61 | U | 61 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5.9 | U | 5.9 | 41 | U | 41 |
| 4-Ethyltoluene | 622-96-8 | 5.9 | U | 5.9 | 29 | U | 29 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5.9 | U | 5.9 | 29 | U | 29 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

776-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689170

Date Analyzed: 11/04/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 750 | E | 2.7 | 3700 | E | 13 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 1.1 | U | 1.1 | 7.7 | U | 7.7 |
| Vinyl Chloride | 75-01-4 | 1.1 | U | 1.1 | 2.8 | U | 2.8 |
| 1,3-Butadiene | 106-99-0 | 2.7 | U | 2.7 | 6.0 | U | 6.0 |
| Bromomethane | 74-83-9 | 1.1 | U | 1.1 | 4.3 | U | 4.3 |
| Chloroethane | 75-00-3 | 1.1 | U | 1.1 | 2.9 | U | 2.9 |
| Bromoethene | 593-60-2 | 1.1 | U | 1.1 | 4.8 | U | 4.8 |
| Trichlorofluoromethane | 75-69-4 | 2.4 | | 1.1 | 13 | | 6.2 |
| 1,1-Dichloroethene | 75-35-4 | 1.1 | U | 1.1 | 4.4 | U | 4.4 |
| 3-Chloropropene | 107-05-1 | 2.7 | U | 2.7 | 8.5 | U | 8.5 |
| Methyl tert-Butyl Ether | 1634-04-4 | 2.7 | U | 2.7 | 9.7 | U | 9.7 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.1 | U | 1.1 | 4.4 | U | 4.4 |
| n-Hexane | 110-54-3 | 5.4 | | 2.7 | 19 | | 9.5 |
| 1,1-Dichloroethane | 75-34-3 | 1.1 | U | 1.1 | 4.5 | U | 4.5 |
| 1,2-Dichloroethene (total) | 540-59-0 | 1.1 | U | 1.1 | 4.4 | U | 4.4 |
| cis-1,2-Dichloroethene | 156-59-2 | 1.1 | U | 1.1 | 4.4 | U | 4.4 |
| Chloroform | 67-66-3 | 1.1 | U | 1.1 | 5.4 | U | 5.4 |
| 1,1,1-Trichloroethane | 71-55-6 | 2.8 | | 1.1 | 15 | | 6.0 |
| Cyclohexane | 110-82-7 | 2.8 | | 1.1 | 9.6 | | 3.8 |
| Carbon Tetrachloride | 56-23-5 | 1.1 | U | 1.1 | 6.9 | U | 6.9 |
| 2,2,4-Trimethylpentane | 540-84-1 | 1.1 | U | 1.1 | 5.1 | U | 5.1 |
| Benzene | 71-43-2 | 1.6 | | 1.1 | 5.1 | | 3.5 |
| 1,2-Dichloroethane | 107-06-2 | 1.1 | U | 1.1 | 4.5 | U | 4.5 |
| n-Heptane | 142-82-5 | 1.3 | | 1.1 | 5.3 | | 4.5 |
| Trichloroethene | 79-01-6 | 120 | | 1.1 | 640 | | 5.9 |
| 1,2-Dichloropropane | 78-87-5 | 1.1 | U | 1.1 | 5.1 | U | 5.1 |
| Bromodichloromethane | 75-27-4 | 1.1 | U | 1.1 | 7.4 | U | 7.4 |
| cis-1,3-Dichloropropene | 10061-01-5 | 1.1 | U | 1.1 | 5.0 | U | 5.0 |
| Toluene | 108-88-3 | 2.2 | | 1.1 | 8.3 | | 4.1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.1 | U | 1.1 | 5.0 | U | 5.0 |
| 1,1,2-Trichloroethane | 79-00-5 | 1.1 | U | 1.1 | 6.0 | U | 6.0 |
| Tetrachloroethene | 127-18-4 | 4.6 | | 1.1 | 31 | | 7.5 |
| Dibromochloromethane | 124-48-1 | 1.1 | U | 1.1 | 9.4 | U | 9.4 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

776-SSV2

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689170

Date Analyzed: 11/04/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 1.1 | U | 1.1 | 8.5 | U | 8.5 |
| Ethylbenzene | 100-41-4 | 1.1 | U | 1.1 | 4.8 | U | 4.8 |
| Xylene (m,p) | 1330-20-7 | 2.7 | U | 2.7 | 12 | U | 12 |
| Xylene (o) | 95-47-6 | 1.1 | U | 1.1 | 4.8 | U | 4.8 |
| Xylene (total) | 1330-20-7 | 1.1 | U | 1.1 | 4.8 | U | 4.8 |
| Bromoform | 75-25-2 | 1.1 | U | 1.1 | 11 | U | 11 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1.1 | U | 1.1 | 7.6 | U | 7.6 |
| 4-Ethyltoluene | 622-96-8 | 1.1 | U | 1.1 | 5.4 | U | 5.4 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1.1 | U | 1.1 | 5.4 | U | 5.4 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

776-SSV2DL

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689170D1

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 1800 | D | 50 | 8900 | D | 250 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 20 | U | 20 | 140 | U | 140 |
| Vinyl Chloride | 75-01-4 | 20 | U | 20 | 51 | U | 51 |
| 1,3-Butadiene | 106-99-0 | 50 | U | 50 | 110 | U | 110 |
| Bromomethane | 74-83-9 | 20 | U | 20 | 78 | U | 78 |
| Chloroethane | 75-00-3 | 20 | U | 20 | 53 | U | 53 |
| Bromoethene | 593-60-2 | 20 | U | 20 | 87 | U | 87 |
| Trichlorofluoromethane | 75-69-4 | 20 | U | 20 | 110 | U | 110 |
| 1,1-Dichloroethene | 75-35-4 | 20 | U | 20 | 79 | U | 79 |
| 3-Chloropropene | 107-05-1 | 50 | U | 50 | 160 | U | 160 |
| Methyl tert-Butyl Ether | 1634-04-4 | 50 | U | 50 | 180 | U | 180 |
| trans-1,2-Dichloroethene | 156-60-5 | 20 | U | 20 | 79 | U | 79 |
| n-Hexane | 110-54-3 | 50 | U | 50 | 180 | U | 180 |
| 1,1-Dichloroethane | 75-34-3 | 20 | U | 20 | 81 | U | 81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 20 | U | 20 | 79 | U | 79 |
| cis-1,2-Dichloroethene | 156-59-2 | 20 | U | 20 | 79 | U | 79 |
| Chloroform | 67-66-3 | 20 | U | 20 | 98 | U | 98 |
| 1,1,1-Trichloroethane | 71-55-6 | 20 | U | 20 | 110 | U | 110 |
| Cyclohexane | 110-82-7 | 20 | U | 20 | 69 | U | 69 |
| Carbon Tetrachloride | 56-23-5 | 20 | U | 20 | 130 | U | 130 |
| 2,2,4-Trimethylpentane | 540-84-1 | 20 | U | 20 | 93 | U | 93 |
| Benzene | 71-43-2 | 20 | U | 20 | 64 | U | 64 |
| 1,2-Dichloroethane | 107-06-2 | 20 | U | 20 | 81 | U | 81 |
| n-Heptane | 142-82-5 | 20 | U | 20 | 82 | U | 82 |
| Trichloroethene | 79-01-6 | 130 | D | 20 | 700 | D | 110 |
| 1,2-Dichloropropane | 78-87-5 | 20 | U | 20 | 92 | U | 92 |
| Bromodichloromethane | 75-27-4 | 20 | U | 20 | 130 | U | 130 |
| cis-1,3-Dichloropropene | 10061-01-5 | 20 | U | 20 | 91 | U | 91 |
| Toluene | 108-88-3 | 20 | U | 20 | 75 | U | 75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 20 | U | 20 | 91 | U | 91 |
| 1,1,2-Trichloroethane | 79-00-5 | 20 | U | 20 | 110 | U | 110 |
| Tetrachloroethene | 127-18-4 | 20 | U | 20 | 140 | U | 140 |
| Dibromochloromethane | 124-48-1 | 20 | U | 20 | 170 | U | 170 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

776-SSV2DL

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: 689170D1

Date Analyzed: 11/03/2006

Date Received: 10/27/2006

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 20 | U | 20 | 150 | U | 150 |
| Ethylbenzene | 100-41-4 | 20 | U | 20 | 87 | U | 87 |
| Xylene (m,p) | 1330-20-7 | 50 | U | 50 | 220 | U | 220 |
| Xylene (o) | 95-47-6 | 20 | U | 20 | 87 | U | 87 |
| Xylene (total) | 1330-20-7 | 20 | U | 20 | 87 | U | 87 |
| Bromoform | 75-25-2 | 20 | U | 20 | 210 | U | 210 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 20 | U | 20 | 140 | U | 140 |
| 4-Ethyltoluene | 622-96-8 | 20 | U | 20 | 98 | U | 98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 20 | U | 20 | 98 | U | 98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

MBLK110206VA

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK1102

Date Analyzed: 11/02/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.50 | U | 0.50 | 2.5 | U | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.20 | U | 0.20 | 0.69 | U | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.20 | U | 0.20 | 0.64 | U | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.20 | U | 0.20 | 0.82 | U | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 0.20 | U | 0.20 | 0.75 | U | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

MBLK110206VA

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK1102

Date Analyzed: 11/02/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.50 | U | 0.50 | 2.2 | U | 2.2 |
| Xylene (o) | 95-47-6 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (total) | 1330-20-7 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

MBLK110306VA

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK1103

Date Analyzed: 11/03/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 0.50 | U | 0.50 | 2.5 | U | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Vinyl Chloride | 75-01-4 | 0.20 | U | 0.20 | 0.51 | U | 0.51 |
| 1,3-Butadiene | 106-99-0 | 0.50 | U | 0.50 | 1.1 | U | 1.1 |
| Bromomethane | 74-83-9 | 0.20 | U | 0.20 | 0.78 | U | 0.78 |
| Chloroethane | 75-00-3 | 0.20 | U | 0.20 | 0.53 | U | 0.53 |
| Bromoethene | 593-60-2 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| 3-Chloropropene | 107-05-1 | 0.50 | U | 0.50 | 1.6 | U | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| n-Hexane | 110-54-3 | 0.50 | U | 0.50 | 1.8 | U | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.20 | U | 0.20 | 0.79 | U | 0.79 |
| Chloroform | 67-66-3 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Cyclohexane | 110-82-7 | 0.20 | U | 0.20 | 0.69 | U | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.20 | U | 0.20 | 0.93 | U | 0.93 |
| Benzene | 71-43-2 | 0.20 | U | 0.20 | 0.64 | U | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 0.20 | U | 0.20 | 0.81 | U | 0.81 |
| n-Heptane | 142-82-5 | 0.20 | U | 0.20 | 0.82 | U | 0.82 |
| Trichloroethene | 79-01-6 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.20 | U | 0.20 | 0.92 | U | 0.92 |
| Bromodichloromethane | 75-27-4 | 0.20 | U | 0.20 | 1.3 | U | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| Toluene | 108-88-3 | 0.20 | U | 0.20 | 0.75 | U | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.20 | U | 0.20 | 0.91 | U | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.20 | U | 0.20 | 1.1 | U | 1.1 |
| Tetrachloroethene | 127-18-4 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| Dibromochloromethane | 124-48-1 | 0.20 | U | 0.20 | 1.7 | U | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

MBLK110306VA

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK1103

Date Analyzed: 11/03/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 0.20 | U | 0.20 | 1.5 | U | 1.5 |
| Ethylbenzene | 100-41-4 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (m,p) | 1330-20-7 | 0.50 | U | 0.50 | 2.2 | U | 2.2 |
| Xylene (o) | 95-47-6 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Xylene (total) | 1330-20-7 | 0.20 | U | 0.20 | 0.87 | U | 0.87 |
| Bromoform | 75-25-2 | 0.20 | U | 0.20 | 2.1 | U | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.20 | U | 0.20 | 1.4 | U | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.20 | U | 0.20 | 0.98 | U | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

VA110206LCS

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: VA110206

Date Analyzed: 11/02/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 9.4 | | 0.50 | 46 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 9.6 | | 0.20 | 67 | | 1.4 |
| Vinyl Chloride | 75-01-4 | 10 | | 0.20 | 26 | | 0.51 |
| 1,3-Butadiene | 106-99-0 | 10 | | 0.50 | 22 | | 1.1 |
| Bromomethane | 74-83-9 | 9.5 | | 0.20 | 37 | | 0.78 |
| Chloroethane | 75-00-3 | 10 | | 0.20 | 26 | | 0.53 |
| Bromoethene | 593-60-2 | 9.3 | | 0.20 | 41 | | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 11 | | 0.20 | 62 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 8.6 | | 0.20 | 34 | | 0.79 |
| 3-Chloropropene | 107-05-1 | 9.5 | | 0.50 | 30 | | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 9.9 | | 0.50 | 36 | | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 9.8 | | 0.20 | 39 | | 0.79 |
| n-Hexane | 110-54-3 | 10 | | 0.50 | 35 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 9.8 | | 0.20 | 40 | | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 19 | | 0.20 | 75 | | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 9.0 | | 0.20 | 36 | | 0.79 |
| Chloroform | 67-66-3 | 9.8 | | 0.20 | 48 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 10 | | 0.20 | 55 | | 1.1 |
| Cyclohexane | 110-82-7 | 9.6 | | 0.20 | 33 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 11 | | 0.20 | 69 | | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 10 | | 0.20 | 47 | | 0.93 |
| Benzene | 71-43-2 | 9.3 | | 0.20 | 30 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 10 | | 0.20 | 40 | | 0.81 |
| n-Heptane | 142-82-5 | 11 | | 0.20 | 45 | | 0.82 |
| Trichloroethene | 79-01-6 | 9.7 | | 0.20 | 52 | | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 10 | | 0.20 | 46 | | 0.92 |
| Bromodichloromethane | 75-27-4 | 9.9 | | 0.20 | 66 | | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | | 0.20 | 45 | | 0.91 |
| Toluene | 108-88-3 | 9.4 | | 0.20 | 35 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 | | 0.20 | 45 | | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 10 | | 0.20 | 55 | | 1.1 |
| Tetrachloroethene | 127-18-4 | 10 | | 0.20 | 68 | | 1.4 |
| Dibromochloromethane | 124-48-1 | 11 | | 0.20 | 94 | | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

VA110206LCS

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: VA110206

Date Analyzed: 11/02/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 10 | | 0.20 | 77 | | 1.5 |
| Ethylbenzene | 100-41-4 | 9.6 | | 0.20 | 42 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 21 | | 0.50 | 91 | | 2.2 |
| Xylene (o) | 95-47-6 | 10 | | 0.20 | 43 | | 0.87 |
| Xylene (total) | 1330-20-7 | 31 | | 0.20 | 130 | | 0.87 |
| Bromoform | 75-25-2 | 11 | | 0.20 | 110 | | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 10 | | 0.20 | 69 | | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 11 | | 0.20 | 54 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 9.0 | | 0.20 | 44 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

VA110206LCSD

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: VA110206

Date Analyzed: 11/02/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 9.1 | | 0.50 | 45 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 9.8 | | 0.20 | 69 | | 1.4 |
| Vinyl Chloride | 75-01-4 | 10 | | 0.20 | 26 | | 0.51 |
| 1,3-Butadiene | 106-99-0 | 10 | | 0.50 | 22 | | 1.1 |
| Bromomethane | 74-83-9 | 9.7 | | 0.20 | 38 | | 0.78 |
| Chloroethane | 75-00-3 | 10 | | 0.20 | 26 | | 0.53 |
| Bromoethene | 593-60-2 | 9.4 | | 0.20 | 41 | | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 11 | | 0.20 | 62 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 8.8 | | 0.20 | 35 | | 0.79 |
| 3-Chloropropene | 107-05-1 | 8.8 | | 0.50 | 28 | | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 10 | | 0.50 | 36 | | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 9.9 | | 0.20 | 39 | | 0.79 |
| n-Hexane | 110-54-3 | 9.6 | | 0.50 | 34 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 10 | | 0.20 | 40 | | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 19 | | 0.20 | 75 | | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 9.0 | | 0.20 | 36 | | 0.79 |
| Chloroform | 67-66-3 | 9.6 | | 0.20 | 47 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 10 | | 0.20 | 55 | | 1.1 |
| Cyclohexane | 110-82-7 | 9.8 | | 0.20 | 34 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 11 | | 0.20 | 69 | | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 10 | | 0.20 | 47 | | 0.93 |
| Benzene | 71-43-2 | 9.7 | | 0.20 | 31 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 10 | | 0.20 | 40 | | 0.81 |
| n-Heptane | 142-82-5 | 11 | | 0.20 | 45 | | 0.82 |
| Trichloroethene | 79-01-6 | 9.8 | | 0.20 | 53 | | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 10 | | 0.20 | 46 | | 0.92 |
| Bromodichloromethane | 75-27-4 | 10 | | 0.20 | 67 | | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | | 0.20 | 45 | | 0.91 |
| Toluene | 108-88-3 | 9.7 | | 0.20 | 37 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 11 | | 0.20 | 50 | | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 11 | | 0.20 | 60 | | 1.1 |
| Tetrachloroethene | 127-18-4 | 10 | | 0.20 | 68 | | 1.4 |
| Dibromochloromethane | 124-48-1 | 11 | | 0.20 | 94 | | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

VA110206LCSD

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: VA110206

Date Analyzed: 11/02/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL In ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 10 | | 0.20 | 77 | | 1.5 |
| Ethylbenzene | 100-41-4 | 9.8 | | 0.20 | 43 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 21 | | 0.50 | 91 | | 2.2 |
| Xylene (o) | 95-47-6 | 11 | | 0.20 | 48 | | 0.87 |
| Xylene (total) | 1330-20-7 | 32 | | 0.20 | 140 | | 0.87 |
| Bromoform | 75-25-2 | 11 | | 0.20 | 110 | | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 10 | | 0.20 | 69 | | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 11 | | 0.20 | 54 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 9.1 | | 0.20 | 45 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

VA110306LCS

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: VA110306

Date Analyzed: 11/03/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 10 | | 0.50 | 49 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 10 | | 0.20 | 70 | | 1.4 |
| Vinyl Chloride | 75-01-4 | 10 | | 0.20 | 26 | | 0.51 |
| 1,3-Butadiene | 106-99-0 | 10 | | 0.50 | 22 | | 1.1 |
| Bromomethane | 74-83-9 | 9.9 | | 0.20 | 38 | | 0.78 |
| Chloroethane | 75-00-3 | 10 | | 0.20 | 26 | | 0.53 |
| Bromoethene | 593-60-2 | 9.7 | | 0.20 | 42 | | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 13 | | 0.20 | 73 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 8.1 | | 0.20 | 32 | | 0.79 |
| 3-Chloropropene | 107-05-1 | 9.3 | | 0.50 | 29 | | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 11 | | 0.50 | 40 | | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 10 | | 0.20 | 40 | | 0.79 |
| n-Hexane | 110-54-3 | 10 | | 0.50 | 35 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 10 | | 0.20 | 40 | | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 19 | | 0.20 | 75 | | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 8.9 | | 0.20 | 35 | | 0.79 |
| Chloroform | 67-66-3 | 11 | | 0.20 | 54 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 13 | | 0.20 | 71 | | 1.1 |
| Cyclohexane | 110-82-7 | 9.8 | | 0.20 | 34 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 14 | | 0.20 | 88 | | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 11 | | 0.20 | 51 | | 0.93 |
| Benzene | 71-43-2 | 9.7 | | 0.20 | 31 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 13 | | 0.20 | 53 | | 0.81 |
| n-Heptane | 142-82-5 | 11 | | 0.20 | 45 | | 0.82 |
| Trichloroethene | 79-01-6 | 11 | | 0.20 | 59 | | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 10 | | 0.20 | 46 | | 0.92 |
| Bromodichloromethane | 75-27-4 | 12 | | 0.20 | 80 | | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 11 | | 0.20 | 50 | | 0.91 |
| Toluene | 108-88-3 | 10 | | 0.20 | 38 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 12 | | 0.20 | 54 | | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 11 | | 0.20 | 60 | | 1.1 |
| Tetrachloroethene | 127-18-4 | 10 | | 0.20 | 68 | | 1.4 |
| Dibromochloromethane | 124-48-1 | 13 | | 0.20 | 110 | | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

VA110306LCS

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: VA110306

Date Analyzed: 11/03/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 11 | | 0.20 | 85 | | 1.5 |
| Ethylbenzene | 100-41-4 | 10 | | 0.20 | 43 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 21 | | 0.50 | 91 | | 2.2 |
| Xylene (o) | 95-47-6 | 9.9 | | 0.20 | 43 | | 0.87 |
| Xylene (total) | 1330-20-7 | 31 | | 0.20 | 130 | | 0.87 |
| Bromoform | 75-25-2 | 12 | | 0.20 | 120 | | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 10 | | 0.20 | 69 | | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 7.2 | | 0.20 | 35 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 9.4 | | 0.20 | 46 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

VA110306LCSD

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: VA110306

Date Analyzed: 11/03/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 10 | | 0.50 | 49 | | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | 10 | | 0.20 | 70 | | 1.4 |
| Vinyl Chloride | 75-01-4 | 10 | | 0.20 | 26 | | 0.51 |
| 1,3-Butadiene | 106-99-0 | 10 | | 0.50 | 22 | | 1.1 |
| Bromomethane | 74-83-9 | 9.9 | | 0.20 | 38 | | 0.78 |
| Chloroethane | 75-00-3 | 10 | | 0.20 | 26 | | 0.53 |
| Bromoethene | 593-60-2 | 9.4 | | 0.20 | 41 | | 0.87 |
| Trichlorofluoromethane | 75-69-4 | 13 | | 0.20 | 73 | | 1.1 |
| 1,1-Dichloroethene | 75-35-4 | 8.4 | | 0.20 | 33 | | 0.79 |
| 3-Chloropropene | 107-05-1 | 9.7 | | 0.50 | 30 | | 1.6 |
| Methyl tert-Butyl Ether | 1634-04-4 | 11 | | 0.50 | 40 | | 1.8 |
| trans-1,2-Dichloroethene | 156-60-5 | 10 | | 0.20 | 40 | | 0.79 |
| n-Hexane | 110-54-3 | 10 | | 0.50 | 35 | | 1.8 |
| 1,1-Dichloroethane | 75-34-3 | 10 | | 0.20 | 40 | | 0.81 |
| 1,2-Dichloroethene (total) | 540-59-0 | 19 | | 0.20 | 75 | | 0.79 |
| cis-1,2-Dichloroethene | 156-59-2 | 8.5 | | 0.20 | 34 | | 0.79 |
| Chloroform | 67-66-3 | 11 | | 0.20 | 54 | | 0.98 |
| 1,1,1-Trichloroethane | 71-55-6 | 12 | | 0.20 | 65 | | 1.1 |
| Cyclohexane | 110-82-7 | 10 | | 0.20 | 34 | | 0.69 |
| Carbon Tetrachloride | 56-23-5 | 13 | | 0.20 | 82 | | 1.3 |
| 2,2,4-Trimethylpentane | 540-84-1 | 10 | | 0.20 | 47 | | 0.93 |
| Benzene | 71-43-2 | 9.5 | | 0.20 | 30 | | 0.64 |
| 1,2-Dichloroethane | 107-06-2 | 12 | | 0.20 | 49 | | 0.81 |
| n-Heptane | 142-82-5 | 11 | | 0.20 | 45 | | 0.82 |
| Trichloroethene | 79-01-6 | 11 | | 0.20 | 59 | | 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 10 | | 0.20 | 46 | | 0.92 |
| Bromodichloromethane | 75-27-4 | 12 | | 0.20 | 80 | | 1.3 |
| cis-1,3-Dichloropropene | 10061-01-5 | 11 | | 0.20 | 50 | | 0.91 |
| Toluene | 108-88-3 | 10 | | 0.20 | 38 | | 0.75 |
| trans-1,3-Dichloropropene | 10061-02-6 | 12 | | 0.20 | 54 | | 0.91 |
| 1,1,2-Trichloroethane | 79-00-5 | 11 | | 0.20 | 60 | | 1.1 |
| Tetrachloroethene | 127-18-4 | 11 | | 0.20 | 75 | | 1.4 |
| Dibromochloromethane | 124-48-1 | 12 | | 0.20 | 100 | | 1.7 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

VA110306LCSD

Lab Name: STL Burlington

SDG Number: NY117175

Case Number:

Sample Matrix: AIR

Lab Sample No.: VA110306

Date Analyzed: 11/03/2006

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 106-93-4 | 11 | | 0.20 | 85 | | 1.5 |
| Ethylbenzene | 100-41-4 | 9.9 | | 0.20 | 43 | | 0.87 |
| Xylene (m,p) | 1330-20-7 | 21 | | 0.50 | 91 | | 2.2 |
| Xylene (o) | 95-47-6 | 10 | | 0.20 | 43 | | 0.87 |
| Xylene (total) | 1330-20-7 | 31 | | 0.20 | 130 | | 0.87 |
| Bromoform | 75-25-2 | 11 | | 0.20 | 110 | | 2.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 11 | | 0.20 | 76 | | 1.4 |
| 4-Ethyltoluene | 622-96-8 | 7.9 | | 0.20 | 39 | | 0.98 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 10 | | 0.20 | 49 | | 0.98 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

774-IA1

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695798

Date Analyzed: 12/27/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.40 | | 0.040 | 1.3 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.44 | | 0.040 | 2.4 | | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

785-IA1

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695799

Date Analyzed: 12/27/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.34 | | 0.040 | 1.1 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.040 | U | 0.040 | 0.21 | U | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

OBGWV-TB3

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695800

Date Analyzed: 12/27/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.040 | U | 0.040 | 0.13 | U | 0.13 |
| Trichloroethene | 79-01-6 | 0.040 | U | 0.040 | 0.21 | U | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

786-IA1

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695801

Date Analyzed: 12/27/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.36 | | 0.040 | 1.2 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.080 | | 0.040 | 0.43 | | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

786-IA2

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695802

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.38 | | 0.040 | 1.2 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.040 | U | 0.040 | 0.21 | U | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

786-IA2 D

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695803

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.37 | | 0.040 | 1.2 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.040 | U | 0.040 | 0.21 | U | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

786-OA1

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695804

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.30 | | 0.040 | 0.96 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.040 | U | 0.040 | 0.21 | U | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

WSA-OA1

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695805

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.26 | | 0.040 | 0.83 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.040 | U | 0.040 | 0.21 | U | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

774-IA2 D

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695806

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.41 | | 0.040 | 1.3 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.56 | | 0.040 | 3.0 | | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

774-IA2

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695807

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.48 | | 0.040 | 1.5 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.64 | | 0.040 | 3.4 | | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

WSA-IA1

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695808

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.27 | | 0.040 | 0.86 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.040 | U | 0.040 | 0.21 | U | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

776-IA1

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695809

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.21 | | 0.040 | 1.0 | | 0.20 |
| Benzene | 71-43-2 | 0.40 | | 0.040 | 1.3 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.82 | | 0.040 | 4.4 | | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.11 | | 0.040 | 0.75 | | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

776-IA2

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695810

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.17 | | 0.040 | 0.83 | | 0.20 |
| Benzene | 71-43-2 | 0.39 | | 0.040 | 1.2 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.54 | | 0.040 | 2.9 | | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.090 | | 0.040 | 0.61 | | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

774-OA1

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695811

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.38 | | 0.040 | 1.2 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.040 | U | 0.040 | 0.21 | U | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

785-IA2

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: 695812

Date Analyzed: 12/28/06

Date Received: 12/21/06

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.080 | U | 0.080 | 0.20 | U | 0.20 |
| 1,1-Dichloroethene | 75-35-4 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.040 | U | 0.040 | 0.16 | U | 0.16 |
| Chloroform | 67-66-3 | 0.040 | U | 0.040 | 0.20 | U | 0.20 |
| Benzene | 71-43-2 | 0.34 | | 0.040 | 1.1 | | 0.13 |
| Trichloroethene | 79-01-6 | 0.040 | U | 0.040 | 0.21 | U | 0.21 |
| Tetrachloroethene | 127-18-4 | 0.040 | U | 0.040 | 0.27 | U | 0.27 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

EA122706LCS

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: EA122706

Date Analyzed: 12/27/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.14 | | 0.020 | 0.36 | | 0.051 |
| 1,1-Dichloroethene | 75-35-4 | 0.089 | | 0.010 | 0.35 | | 0.040 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.10 | | 0.010 | 0.40 | | 0.040 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.22 | | 0.010 | 0.87 | | 0.040 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.12 | | 0.010 | 0.48 | | 0.040 |
| Chloroform | 67-66-3 | 0.095 | | 0.010 | 0.46 | | 0.049 |
| Benzene | 71-43-2 | 0.10 | | 0.010 | 0.32 | | 0.032 |
| Trichloroethene | 79-01-6 | 0.12 | | 0.010 | 0.64 | | 0.054 |
| Tetrachloroethene | 127-18-4 | 0.089 | | 0.010 | 0.60 | | 0.068 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

EA122706LCSD

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: EA122706

Date Analyzed: 12/27/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.14 | | 0.020 | 0.36 | | 0.051 |
| 1,1-Dichloroethene | 75-35-4 | 0.095 | | 0.010 | 0.38 | | 0.040 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.11 | | 0.010 | 0.44 | | 0.040 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.21 | | 0.010 | 0.83 | | 0.040 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.10 | | 0.010 | 0.40 | | 0.040 |
| Chloroform | 67-66-3 | 0.10 | | 0.010 | 0.49 | | 0.049 |
| Benzene | 71-43-2 | 0.10 | | 0.010 | 0.32 | | 0.032 |
| Trichloroethene | 79-01-6 | 0.10 | | 0.010 | 0.54 | | 0.054 |
| Tetrachloroethene | 127-18-4 | 0.092 | | 0.010 | 0.62 | | 0.068 |

**TO-14/15**
**Result Summary**

CLIENT SAMPLE NO.

MBLK122706EA

Lab Name: STL Burlington

SDG Number: NY118083

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK1227

Date Analyzed: 12/27/06

Date Received: / /

| Target Compound | CAS Number | Results in ppbv | Q | RL in ppbv | Results in ug/m3 | Q | RL in ug/m3 |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | 0.020 | U | 0.020 | 0.051 | U | 0.051 |
| 1,1-Dichloroethene | 75-35-4 | 0.010 | U | 0.010 | 0.040 | U | 0.040 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.010 | U | 0.010 | 0.040 | U | 0.040 |
| 1,2-Dichloroethene (total) | 540-59-0 | 0.010 | U | 0.010 | 0.040 | U | 0.040 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | U | 0.010 | 0.040 | U | 0.040 |
| Chloroform | 67-66-3 | 0.010 | U | 0.010 | 0.049 | U | 0.049 |
| Benzene | 71-43-2 | 0.010 | U | 0.010 | 0.032 | U | 0.032 |
| Trichloroethene | 79-01-6 | 0.010 | U | 0.010 | 0.054 | U | 0.054 |
| Tetrachloroethene | 127-18-4 | 0.010 | U | 0.010 | 0.068 | U | 0.068 |

# F

# Data Usability Summary Report

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117081 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

The samples and analytical methods included in this sample delivery group (SDG) are documented in Table 1 Sample Summary. The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness per New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) Guidance for the Development of Data Usability Summary Reports (DUSRs), June 1999. The data review involved looking at the electronic data deliverables (EDDs) and comparing the sample results and laboratory quality control (QC) samples versus the data quality objectives (DQO). Any major or minor concerns affected data usability also are summarized listed below. The representativeness and comparability of the data are evaluated to determine how data usability may be impacted.

| **Completeness Review** | |
|---|---|
| Do Samples and Analyses on COC check against Lab Sample Tracking Form? | Yes |
| Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form? | NA - the air samples were delivered at ambient temperature. |
| Frequency of Field QC Samples Correct?<br>*Field Duplicate - 1/20 samples.*<br>*Trip Blank - 1/20 samples.*<br>*Equipment Blank - 1/ set of samples per day*. | Yes – Trip blank and field duplicate collected and included in this SDG. |
| Laboratory QC frequency correct?<br>*Method blank with each batch and one set of MS/MSD and LCS per 20 samples?* | Yes – MS/MSD not required. |
| All forms and raw data complete? | Yes. |
| Case narrative present and complete? | Yes. |
| Target analyte list and reporting limits match QAPP? | Yes.- Full TO-15 compound list reported. |
| Were any samples re-analyzed or diluted?<br><br>For any sample re-analysis and dilutions ensure that only one result per sample and analyte is flagged as reportable. | Yes |
| Were the canisters for air samples received with a vacuum pressure of between -10 and zero inches of Hg? | No – Final pressure for sample AOC9-SV-06 at +0.2. |

| **Compliance Review** | |
|---|---|
| **Description** | **Notes and Qualifiers** |
| Any holding time violations? | No. |
| Any compounds present in method, trip and field blanks? | Yes – Dichlorodifluoromethane detected in trip blank. |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117081 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

| Compliance Review | |
|---|---|
| **Description** | **Notes and Qualifiers** |
| Were any analytes flagged for blank contamination?<br>*For samples, if results are <5 times the blank or <10 times blank for common laboratory contaminants then "U" flag data. Qualification also applies to TICs reported with GC/MS.* | Yes – Dichlorodifluoromethane results for samples qualified "U" based on trip blank result. Dichlorodifluoromethane suspected as being present in laboratory zero air. |
| Surrogate for method blanks and LCS within limits? | NA |
| Surrogate for samples and MS/MSD within limits?<br><br>Were appropriate samples re-analyzed?<br>*All samples should be re-analyzed for VOCs*. | NA |
| MS/MSD within QC criteria?<br><br>*If out and LCS is compliant, then J flag positive data in original sample due to matrix.* | NA |
| LCS within QC criteria?<br><br>*If out, and the recovery high with no positive values, then no data qualification is required. Positive results are "J" flagged and non-detects are "J" flagged if low. Reject data with recovery <10%.* | No – 1,4-dioxane low for 10/31 LCS and tetrahydrofuran low for 11/1 LCS |
| Were any samples re-analyzed or diluted?<br><br>*For any sample re-analysis and dilutions ensure that only one result per sample and analyte is flagged as reportable.* | Yes |
| Do field duplicate results show good precision for all compounds except TICs? | No |

| Compliance Review by Method | | |
|---|---|---|
| **Method** | **Description** | **Notes and Qualifiers** |
| GC/MS | Do internal standards areas and retention time meet criteria?<br><br>*Samples should be re-analyzed to establish matrix effects or chromatograms documenting matrix effects provided.* | Yes |
| GC/MS | Does initial calibration meet criteria for all positive target compounds? (%RSD≤30) Note that two compounds can have less than 40%. | Yes. |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117081 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

| Compliance Review by Method | | |
|---|---|---|
| **Method** | **Description** | **Notes and Qualifiers** |
| | Is the minimum response factor must be met for all compounds? (≤0.05) | Yes. |
| GC/MS | Does continuing calibration meet criteria for all positive target compounds? (%D ± 30%) | Yes. |
| | Is the minimum response factor must be met for all compounds? (≤0.05) | Yes. |

| Summary of Potential Impacts on Data Usability |
|---|
| **Major Concerns** |
| None |
| **Minor Concerns** |
| Dichlorodilfluoromethane detected in trip blank at concentrations above those detected in samples. Sample results qualified "U".<br><br>1,4-dioxane and tetrahydrofuran results qualified "UJ" based on low LCS recovery. |

Key:

CCV = Continuing calibration verification
COC = Chain-of-custody
GC/MS = Gas Chromatography/Mass Spectrometry
NA = Not Applicable
LCS = Laboratory Control Sample
MS/MSD = Matrix Spike/Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
TIC = Tentatively Identified Compound
VOCs = Volatile Organic Compounds

## Table 1 Sample Listing

| Lab Sample ID | Client Sample ID | Matrix | Sample Date | Method | ID Corrections |
|---|---|---|---|---|---|
| 688437 | AOC9-SV-01 | Air | 10/18/2006 | Method TO15 | |
| 688438 | AOC9-SV-02 | Air | 10/18/2006 | Method TO15 | |
| 688439 | AOC9-SV-03 | Air | 10/18/2006 | Method TO15 | |
| 688440 | AOC9-SV-04 | Air | 10/18/2006 | Method TO15 | |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117081 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

| Lab Sample ID | Client Sample ID | Matrix | Sample Date | Method | ID Corrections |
|---|---|---|---|---|---|
| 688441 | AOC9-SV-05 | Air | 10/18/2006 | Method TO15 | |
| 688442 | AOC9-SV-06 | Air | 10/18/2006 | Method TO15 | |
| 688443 | 775-SV-04 | Air | 10/19/2006 | Method TO15 | |
| 688444 | 775-SV-04/D | Air | 10/19/2006 | Method TO15 | |
| 688445 | 775-SV-01 | Air | 10/19/2006 | Method TO15 | |
| 688446 | 775-SV-03 | Air | 10/19/2006 | Method TO15 | |
| 688447 | 775-SV-02 | Air | 10/20/2006 | Method TO15 | |
| 688448 | TB-20-10-06 | Air | 10/20/2006 | Method TO15 | |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117081 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

**Table 2 Summary of Qualified Data**

| Lab Sample ID | CLIENT SAMPLE ID | Analyte | Lab QUAL | Reported Result | units | Method | Matrix | Data Validation Qualifier | Reason |
|---|---|---|---|---|---|---|---|---|---|
| AOC9-SV-06 | 688442 | Dichlorodifluoromethane | | 3.0 U | ug/m3 | TO-15 | Air | U | Detected in trip blank |
| 775-SV-04 | 688443 | Dichlorodifluoromethane | | 3.3 U | ug/m3 | TO-15 | Air | U | Detected in trip blank |
| 775-SV-04/D | 688444 | Dichlorodifluoromethane | | 3.4 U | ug/m3 | TO-15 | Air | U | Detected in trip blank |
| 775-SV-01 | 688445 | Dichlorodifluoromethane | | 3.8 U | ug/m3 | TO-15 | Air | U | Detected in trip blank |
| 775-SV-03 | 688446 | Dichlorodifluoromethane | | 3.7 U | ug/m3 | TO-15 | Air | U | Detected in trip blank |
| 775-SV-02 | 688447 | Dichlorodifluoromethane | | 4.2 U | ug/m3 | TO-15 | Air | U | Detected in trip blank |
| AOC9-SV-01 | 688437 | 1,4-Dioxane | U | 54 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| AOC9-SV-02 | 688438 | 1,4-Dioxane | U | 36 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| AOC9-SV-03 | 688439 | 1,4-Dioxane | U | 110 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| AOC9-SV-04 | 688440 | 1,4-Dioxane | U | 54 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| AOC9-SV-05 | 688441 | 1,4-Dioxane | U | 27 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| AOC9-SV-06 | 688442 | 1,4-Dioxane | U | 18 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| 775-SV-04 | 688443 | 1,4-Dioxane | U | 18 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| 775-SV-04/D | 688444 | 1,4-Dioxane | U | 18 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| 775-SV-01 | 688445 | 1,4-Dioxane | U | 18 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| 775-SV-03 | 688446 | Tetrahydrofuran | U | 15 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| 775-SV-02 | 688447 | Tetrahydrofuran | U | 15 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| Tb-20-10-06 | 688448 | Tetrahydrofuran | U | 15 | ug/m3 | TO-15 | Air | UJ | Low LCS Recovery |
| 775-SV-04 | 688443 | Carbon disulfide | | 4.4 | ug/m3 | TO-15 | Air | J | Field Dup RPD |
| 775-SV-04/D | 688444 | Carbon disulfide | | 2.4 | ug/m3 | TO-15 | Air | J | Field Dup RPD |

**Table 3 Field Duplicate Results**

| Analyte | Units | PQL | 775-SV-04 | | 775-SV-04/D | | RPD | RPD Rating |
|---|---|---|---|---|---|---|---|---|
| 1,3-Butadiene | ug/m3 | 1.1 | 1.4 | | 1.3 | | 7.4 | Good |
| Trichlorofluoromethane | ug/m3 | 1.1 | 9.6 | | 9.0 | | 6.4 | Good |
| Acetone | ug/m3 | 12 | 16 | | 19 | | 17.1 | Good |
| Carbon disulfide | ug/m3 | 1.6 | 4.4 | | 2.4 | | 58.8 | Poor |
| n-Hexane | ug/m3 | 1.8 | 2.0 | | 2.0 | | 0.0 | Good |
| Methyl Ethyl Ketone | ug/m3 | 1.5 | 19 | | 19 | | 0.0 | Good |
| 1,1,1-Trichloroethane | ug/m3 | 1.1 | 1.3 | | 1.2 | | 8.0 | Good |
| n-Heptane | ug/m3 | 0.82 | 1.5 | | 1.4 | | 6.9 | Good |
| Toluene | ug/m3 | 0.75 | 7.2 | | 6.8 | | 5.7 | Good |
| Methyl Butyl Ketone | ug/m3 | 2.0 | 2.8 | | 2.4 | | 15.4 | Good |
| Ethylbenzene | ug/m3 | 0.87 | 1.8 | | 1.6 | | 11.8 | Good |
| m&p-Xylene | ug/m3 | 2.2 | 6.1 | | 5.6 | | 8.5 | Good |
| o-Xylene | ug/m3 | 0.87 | 1.7 | | 1.5 | | 12.5 | Good |
| Styrene | ug/m3 | 0.85 | 3.0 | | 2.7 | | 10.5 | Good |
| 4-Ethyltoluene | ug/m3 | 0.98 | 2.0 | | 1.3 | | 42.4 | Good |
| 1,2,4-Trimethylbenzene | ug/m3 | 0.98 | 3.6 | | 3.3 | | 8.7 | Good |

Key:
FD = Field Duplicate
NC = Not Calculated
ND = Not Detected
PQL = Practical Quantitation Limit
RPD = Relative Percent Difference

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117175 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

The samples and analytical methods included in this sample delivery group (SDG) are documented in Table 1 Sample Summary. The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness per New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) Guidance for the Development of Data Usability Summary Reports (DUSRs), June 1999. The data review involved looking at the electronic data deliverables (EDDs) and comparing the sample results and laboratory quality control (QC) samples versus the data quality objectives (DQO). Any major or minor concerns affected data usability also are summarized listed below. The representativeness and comparability of the data are evaluated to determine how data usability may be impacted.

| **Completeness Review** | |
|---|---|
| Do Samples and Analyses on COC check against Lab Sample Tracking Form? | Yes |
| Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form? | NA - the air samples were delivered at ambient temperature. |
| Frequency of Field QC Samples Correct?<br>*Field Duplicate - 1/20 samples.*<br>*Trip Blank - 1/20 samples.*<br>*Equipment Blank - 1/ set of samples per day*. | Yes – Trip blank and field duplicates collected and included in this SDG. |
| Laboratory QC frequency correct?<br>*Method blank with each batch and one set of MS/MSD and LCS per 20 samples?* | Yes – MS/MSD not required. |
| All forms and raw data complete? | Yes. |
| Case narrative present and complete? | Yes. |
| Target analyte list and reporting limits match QAPP? | Yes.- Low Level TO-15 list reported. |
| Were any samples re-analyzed or diluted?<br><br>For any sample re-analysis and dilutions ensure that only one result per sample and analyte is flagged as reportable. | Yes |
| Were the canisters for air samples received with a vacuum pressure of between -10 and zero inches of Hg? | No – Final pressure for sample B785-SSV1 at +0.2, B785-SSV2 at +0.3, B784-SSV2 at +0.7, B786-SSV1 at +0.3, and B786-SSV2/D at +0.5. |

| **Compliance Review** | |
|---|---|
| **Description** | **Notes and Qualifiers** |
| Any holding time violations? | No. |
| Any compounds present in method, trip and field blanks? | Yes – Dichlorodifluoromethane detected in trip blank. |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117175 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

| Compliance Review | |
|---|---|
| **Description** | **Notes and Qualifiers** |
| Were any analytes flagged for blank contamination?<br>*For samples, if results are <5 times the blank or <10 times blank for common laboratory contaminants then "U" flag data. Qualification also applies to TICs reported with GC/MS.* | Yes – Dichlorodifluoromethane results for samples qualified "U" at the reported concentration. |
| Surrogate for method blanks and LCS within limits? | NA |
| Surrogate for samples and MS/MSD within limits?<br><br>Were appropriate samples re-analyzed?<br>*All samples should be re-analyzed for VOCs*. | NA |
| MS/MSD within QC criteria?<br><br>*If out and LCS is compliant, then J flag positive data in original sample due to matrix.* | NA |
| LCS within QC criteria?<br><br>*If out, and the recovery high with no positive values, then no data qualification is required. Positive results are "J" flagged and non-detects are "J" flagged if low. Reject data with recovery <10%.* | No – Carbon tetrachloride recovery high at 140% for 110306LCS. Not detected in associated samples. No results qualified. |
| Were any samples re-analyzed or diluted?<br><br>*For any sample re-analysis and dilutions ensure that only one result per sample and analyte is flagged as reportable.* | Yes |
| Do field duplicate results show good precision for all compounds except TICs? | No. B786-SSV2 and B786-SSV2/D showed poor precision. Sample SSV2 was analyzed a dilution and SSV2/D was not analyzed without dilution. The raw data and initial screens were reviewed and found to be comparable. Results are flagged "J" as estimated. |

| Compliance Review by Method | | |
|---|---|---|
| **Method** | **Description** | **Notes and Qualifiers** |
| GC/MS | Do internal standards areas and retention time meet criteria?<br><br>*Samples should be re-analyzed to establish matrix effects or chromatograms documenting matrix effects provided.* | Yes |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117175 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

| Compliance Review by Method | | |
|---|---|---|
| **Method** | **Description** | **Notes and Qualifiers** |
| GC/MS | Does initial calibration meet criteria for all positive target compounds? (%RSD≤30) Note that two compounds can have less than 40%. | Yes. |
| | Is the minimum response factor must be met for all compounds? (≤0.05) | Yes. |
| GC/MS | Does continuing calibration meet criteria for all positive target compounds? (%D ± 30%) | No - %D >30% for 1,1,1-trichloroethane, carbon tetrachloride and 1,2-dichloroethane in 11/3 CCV. Results qualified "UJ/J". |
| | Is the minimum response factor must be met for all compounds? (≤0.05) | Yes. |

| Summary of Potential Impacts on Data Usability |
|---|
| **Major Concerns** |
| None |
| **Minor Concerns** |
| Dichlorodilfluoromethane detected in trip blank at concentrations above those detected in samples. Sample results qualified "U". Dichlorodifluoromethane is suspected to have been introduced to the sample with the "laboratory zero air".<br><br>1,1,1-Trichloroethane, carbon tetrachloride and 1,2-dichloroethane calibration criteria not met for samples B785-SSV1, B784-SSV1, B784-SSV2, B783-SSV1, B783-SSV2, B782-SSV1, B782-SSV1/D, B782-SSV2, 774-SSV1, 774-SSV2, 776-SSV2, 776-SSV2DL, and 776-SSV1.<br><br>Field duplicates B786-SSV2 and B786-SSV2/D showed poor precision and the results are flagged "J" as estimated. The analytical results did not indicate a problem at the laboratory. The variability indicates potential limitations on the data when comparing to screening criteria. |

Key:

| | | |
|---|---|---|
| CCV | = | Continuing calibration verification |
| COC | = | Chain-of-custody |
| GC/MS | = | Gas Chromatography/Mass Spectrometry |
| NA | = | Not Applicable |
| LCS | = | Laboratory Control Sample |
| MS/MSD | = | Matrix Spike/Matrix Spike Duplicate |
| QAPP | = | Quality Assurance Project Plan |
| QC | = | Quality Control |
| TIC | = | Tentatively Identified Compound |
| VOCs | = | Volatile Organic Compounds |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117175 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

**Table 1 Sample Listing**

| Lab Sample ID | Client Sample ID | Matrix | Sample Date | Method | ID Corrections |
|---|---|---|---|---|---|
| 689152 | WSA-SSV1 | Air | 10/24/2006 | Method TO15 | |
| 689153 | WSA-SSV1/D | Air | 10/24/2006 | Method TO15 | |
| 689154 | B785-SSV1 | Air | 10/24/2006 | Method TO15 | |
| 689155 | B785-SSV2 | Air | 10/24/2006 | Method TO15 | |
| 689156 | B784-SSV1 | Air | 10/24/2006 | Method TO15 | |
| 689157 | B784-SSV2 | Air | 10/24/2006 | Method TO15 | |
| 689158 | OBGWV-TB1 | Air | 10/24/2006 | Method TO15 | |
| 689159 | B786-SSV1 | Air | 10/25/2006 | Method TO15 | |
| 689160 | B786-SSV2 | Air | 10/25/2006 | Method TO15 | |
| 689161 | B786-SSV/D | Air | 10/25/2006 | Method TO15 | |
| 689162 | B783-SSV1 | Air | 10/25/2006 | Method TO15 | |
| 689163 | B783-SSV2 | Air | 10/25/2006 | Method TO15 | |
| 689164 | B782-SSV1 | Air | 10/25/2006 | Method TO15 | |
| 689165 | B782-SSV1/D | Air | 10/25/2006 | Method TO15 | |
| 689166 | B782-SSV2 | Air | 10/25/2006 | Method TO15 | |
| 689167 | 774-SSV1 | Air | 10/26/2006 | Method TO15 | |
| 689168 | 774-SSV2 | Air | 10/26/2006 | Method TO15 | |
| 689169 | 776-SSV1 | Air | 10/26/2006 | Method TO15 | |
| 689170 | 776-SSV2 | Air | 10/26/2006 | Method TO15 | |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117175 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

**Table 2 Summary of Qualified Data**

| Lab Sample ID | CLIENT SAMPLE ID | Analyte | Lab QUAL | Reported Result | units | Method | Matrix | Data Validation Qualifier | Reason |
|---|---|---|---|---|---|---|---|---|---|
| WSA-SSV1 | 689152 | Dichlorodifluoromethane | | 36 U | ug/m$^3$ | TO-15 | Air | U | Detected in trip blank |
| WSA-SSV1/D | 689153 | Dichlorodifluoromethane | | 34 U | ug/m$^3$ | TO-15 | Air | U | Detected in trip blank |
| B785-SSV1 | 689154 | Dichlorodifluoromethane | | 250 J | ug/m$^3$ | TO-15 | Air | U | Detected in trip blank |
| B784-SSV1 | 689156 | Dichlorodifluoromethane | | 3.1 U | ug/m$^3$ | TO-15 | Air | U | Detected in trip blank |
| B784-SSV2 | 689156 | Dichlorodifluoromethane | | 3.1 U | ug/m$^3$ | TO-15 | Air | U | Detected in trip blank |
| B786-SSV1 | 689159 | Dichlorodifluoromethane | | 1900 J | ug/m$^3$ | TO-15 | Air | U | Detected in trip blank |
| B786-SSV2 | 689160 | Dichlorodifluoromethane | | 130 J | ug/m$^3$ | TO-15 | Air | UJ | Detected in trip blank |
| B783-SSV1 | 689162 | Dichlorodifluoromethane | | 2.7 U | ug/m$^3$ | TO-15 | Air | UJ | Detected in trip blank |
| B783-SSV2 | 689163 | Dichlorodifluoromethane | | 2.9 U | ug/m$^3$ | TO-15 | Air | UJ | Detected in trip blank |
| B782-SSV1 | 689164 | Dichlorodifluoromethane | | 2.9 U | ug/m$^3$ | TO-15 | Air | UJ | Detected in trip blank |
| B782-SSV1/D | 689165 | Dichlorodifluoromethane | | 2.8 U | ug/m$^3$ | TO-15 | Air | UJ | Detected in trip blank |
| B782-SSV2 | 689166 | Dichlorodifluoromethane | | 3.5 U | ug/m$^3$ | TO-15 | Air | UJ | Detected in trip blank |
| 776-SSV2 | 689170 | Dichlorodifluoromethane | | 8900 J | ug/m$^3$ | TO-15 | Air | UJ | Detected in trip blank |
| B785-SSV1 | 689154 | Carbon Tetrachloride | U | 88 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B784-SSV1 | 689156 | Carbon Tetrachloride | U | 1.3 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B784-SSV2 | 689157 | Carbon Tetrachloride | U | 1.3 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B783- | 689162 | Carbon Tetrachloride | U | 1.3 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117175 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

| Lab Sample ID | CLIENT SAMPLE ID | Analyte | Lab QUAL | Reported Result | units | Method | Matrix | Data Validation Qualifier | Reason |
|---|---|---|---|---|---|---|---|---|---|
| SSV1 | | | | | | | | | |
| B783-SSV2 | 689163 | Carbon Tetrachloride | U | 1.3 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B782-SSV1 | 689164 | Carbon Tetrachloride | U | 1.3 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B782-SSV1/D | 689165 | Carbon Tetrachloride | U | 1.3 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B782-SSV2 | 689166 | Carbon Tetrachloride | U | 1.3 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 774-SSV1 | 689167 | Carbon Tetrachloride | U | 13 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 774-SSV2 | 689168 | Carbon Tetrachloride | U | 6.3 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 776-SSV2DL | 689170 | Carbon Tetrachloride | U | 130 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 776-SSV2 | 689170 | Carbon Tetrachloride | U | 6.9 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 776-SSV1 | 689169 | Carbon Tetrachloride | U | 37 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B785-SSV1 | 689154 | 1,1,1-Trichloroethane | U | 76 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B784-SSV1 | 689156 | 1,1,1-Trichloroethane | | 11 | ug/m$^3$ | TO-15 | Air | J | CCV %D |
| B784-SSV2 | 689157 | 1,1,1-Trichloroethane | | 13 | ug/m$^3$ | TO-15 | Air | J | CCV %D |
| B783-SSV1 | 689162 | 1,1,1-Trichloroethane | | 1.7 | ug/m$^3$ | TO-15 | Air | J | CCV %D |
| B783-SSV2 | 689163 | 1,1,1-Trichloroethane | U | 1.1 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B782-SSV1 | 689164 | 1,1,1-Trichloroethane | U | 1.1 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B782-SSV1/D | 689165 | 1,1,1-Trichloroethane | U | 1.1 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B782-SSV2 | 689166 | 1,1,1-Trichloroethane | | 1.6 | ug/m$^3$ | TO-15 | Air | J | CCV %D |
| 774-SSV1 | 689167 | 1,1,1-Trichloroethane | | 55 | ug/m$^3$ | TO-15 | Air | J | CCV %D |
| 774-SSV2 | 689168 | 1,1,1-Trichloroethane | | 28 | ug/m$^3$ | TO-15 | Air | J | CCV %D |
| 776-SSV2DL | 689170 | 1,1,1-Trichloroethane | U | 110 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 776-SSV2 | 689170 | 1,1,1-Trichloroethane | | 15 | ug/m$^3$ | TO-15 | Air | J | CCV %D |
| 776-SSV1 | 689169 | 1,1,1-Trichloroethane | | 33 | ug/m$^3$ | TO-15 | Air | J | CCV %D |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117175 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

| Lab Sample ID | CLIENT SAMPLE ID | Analyte | Lab QUAL | Reported Result | units | Method | Matrix | Data Validation Qualifier | Reason |
|---|---|---|---|---|---|---|---|---|---|
| B785-SSV1 | 689154 | 1,2-dichloroethane | U | 57 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B784-SSV1 | 689156 | 1,2-dichloroethane | U | 0.81 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B784-SSV2 | 689157 | 1,2-dichloroethane | U | 0.81 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B783-SSV1 | 689162 | 1,2-dichloroethane | U | 0.81 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B783-SSV2 | 689163 | 1,2-dichloroethane | U | 0.81 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B782-SSV1 | 689164 | 1,2-dichloroethane | U | 0.81 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B782-SSV1/D | 689165 | 1,2-dichloroethane | U | 0.81 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B782-SSV2 | 689166 | 1,2-dichloroethane | U | 0.81 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 774-SSV1 | 689167 | 1,2-dichloroethane | U | 8.1 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 774-SSV2 | 689168 | 1,2-dichloroethane | U | 4.0 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 776-SSV2DL | 689170 | 1,2-dichloroethane | U | 81 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 776-SSV2 | 689170 | 1,2-dichloroethane | U | 4.5 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| 776-SSV1 | 689169 | 1,2-dichloroethane | U | 24 | ug/m$^3$ | TO-15 | Air | UJ | CCV %D |
| B786-SSV2 | 689160 | n-Hexane | | 88 | ug/m$^3$ | TO-15 | Air | J | Field Dup RPD |
| B786-SSV2 | 689160 | Cyclohexane | | 31 | ug/m$^3$ | TO-15 | Air | J | Field Dup RPD |
| B786-SSV2 | 689160 | Benzene | | 24 | ug/m$^3$ | TO-15 | Air | J | Field Dup RPD |
| B786-SSV2 | 689160 | n-Heptane | | 41 | ug/m$^3$ | TO-15 | Air | J | Field Dup RPD |
| B786-SSV2 | 689160 | Trichloroethene | | 4700 | ug/m$^3$ | TO-15 | Air | J | Field Dup RPD |
| B786-SSV2/D | 689161 | n-Hexane | | 23 | ug/m$^3$ | TO-15 | Air | J | Field Dup RPD |
| B786-SSV2/D | 689161 | Cyclohexane | | 9.6 | ug/m$^3$ | TO-15 | Air | J | Field Dup |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY117175 |
| Date Completed: Nov 22, 2006 | Data Validation Chemist: B. Krajewski |

| Lab Sample ID | CLIENT SAMPLE ID | Analyte | Lab QUAL | Reported Result | units | Method | Matrix | Data Validation Qualifier | Reason |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | RPD |
| B786-SSV2/D | 689161 | Benzene | | 8.9 | $ug/m^3$ | TO-15 | Air | J | Field Dup RPD |
| B786-SSV2/D | 689161 | n-Heptane | | 8.6 | $ug/m^3$ | TO-15 | Air | J | Field Dup RPD |
| B786-SSV2/D | 689161 | Trichloroethene | | 700 | $ug/m^3$ | TO-15 | Air | J | Field Dup RPD |

**Table 3 Field Duplicate Results**

| Analyte | Units | PQL | WSA-SSV1 | | WSA-SSV1/D | | RPD | RPD Rating |
|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ug/m3 | 1.1 | 7.3 | | 7.3 | | 0.0 | Good |
| n-Hexane | ug/m3 | 1.8 | 11 | | 11 | | 0.0 | Good |
| Chloroform | ug/m3 | 0.96 | 140 | | 120 | | 15.4 | Good |
| 1,1,1-Trichloroethane | ug/m3 | 1.1 | 2.2 | | 2.3 | | 4.4 | Good |
| Cyclohexane | ug/m3 | 0.69 | 4.1 | | 4.1 | | 0.0 | Good |
| Benzene | ug/m3 | 0.64 | 3.5 | | 3.5 | | 0.0 | Good |
| n-Heptane | ug/m3 | 0.82 | 4.5 | | 4.9 | | 8.5 | Good |
| Trichloroethene | ug/m3 | 1.1 | 130 | | 130 | | 0.0 | Good |
| Toluene | ug/m3 | 0.75 | 11 | | 12 | | 8.7 | Good |
| 1,3,5-Trimethylbenzene | ug/m3 | 0.98 | ND | | 0.98 | | NC | Good |

| Analyte | Units | PQL | B786-SSV2 | | B786-SSV2/D | | RPD | RPD Rating |
|---|---|---|---|---|---|---|---|---|
| n-Hexane | ug/m3 | 8.8 | 88 | | 23 | | 117 | Poor |
| Cyclohexane | ug/m3 | 3.4 | 31 | | 9.6 | | 105 | Poor |
| Benzene | ug/m3 | 2.8 | 24 | | 8.9 | | 91.8 | Poor |
| n-Heptane | ug/m3 | 2.1 | 41 | | 8.6 | | 131 | Poor |
| Trichloroethene | ug/m3 | 5.4 | 4700 | | 700 | | 148 | Poor |
| Toluene | ug/m3 | 3.8 | ND | | 12 | | NC | Good |

| Analyte | Units | PQL | B782-SSV1 | | B782-SSV1/D | | RPD | RPD Rating |
|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ug/m3 | 1.1 | 1.5 | | 1.7 | | 1.2 | Good |
| n-Hexane | ug/m3 | 1.8 | 8.1 | | 8.5 | | 4.8 | Good |
| Cyclohexane | ug/m3 | 0.69 | 3.3 | | 2.9 | | 12.9 | Good |
| Benzene | ug/m3 | 0.64 | 3.1 | | 3.2 | | 3.2 | Good |
| n-Heptane | ug/m3 | 0.82 | 7.4 | | 6.6 | | 11.4 | Good |
| Toluene | ug/m3 | 0.75 | 8.7 | | 9.0 | | 3.4 | Good |
| Tetrachloroethene | ug/m3 | 1.4 | 16 | | 17 | | 6.1 | Good |
| Ethylbenzene | ug/m3 | 0.87 | 13 | | 13 | | 0.0 | Good |
| m&p-Xylene | ug/m3 | 2.2 | 4.8 | | 4.8 | | 0.0 | Good |
| o-Xylene | ug/m3 | 0.87 | 2.0 | | 2.1 | | 4.9 | Good |
| 4-Ethyltoluene | ug/m3 | 0.98 | 1.4 | | 1.5 | | 6.9 | Good |
| 1,3,5-Trimethylbenzene | ug/m3 | 0.98 | 1.5 | | 1.2 | | 22.2 | Good |

Key:
FD = Field Duplicate
NC = Not Calculated
ND = Not Detected
PQL = Practical Quantitation Limit
RPD = Relative Percent Difference

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY18083 |
| Date Completed: January 15, 2007 | Data Validation Chemist: B. Krajewski |

The samples and analytical methods included in this sample delivery group (SDG) are documented in Table 1 Sample Summary. The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness per New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) Guidance for the Development of Data Usability Summary Reports (DUSRs), June 1999. The data review involved looking at the electronic data deliverables (EDDs) and comparing the sample results and laboratory quality control (QC) samples versus the data quality objectives (DQO). Any major or minor concerns affected data usability also are summarized listed below. The representativeness and comparability of the data are evaluated to determine how data usability may be impacted.

| **Completeness Review** | |
|---|---|
| Do Samples and Analyses on COC check against Lab Sample Tracking Form? | Yes |
| Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form? | NA - the air samples were delivered at ambient temperature. |
| Frequency of Field QC Samples Correct?<br>*Field Duplicate - 1/20 samples.*<br>*Trip Blank - 1/20 samples.*<br>*Equipment Blank - 1/ set of samples per day*. | Yes – Trip blank and field duplicates collected and included in this SDG. |
| Laboratory QC frequency correct?<br>*Method blank with each batch and one set of MS/MSD and LCS per 20 samples?* | Yes – MS/MSD not required. |
| All forms and raw data complete? | Yes. |
| Case narrative present and complete? | Yes. |
| Target analyte list and reporting limits match QAPP? | Yes |
| Were any samples re-analyzed or diluted?<br><br>For any sample re-analysis and dilutions ensure that only one result per sample and analyte is flagged as reportable. | Yes |
| Were the canisters for air samples received with a vacuum pressure of between -10 and zero inches of Hg? | No – Final pressure for sample 785-IA1 at -11.3 and 786-IA2/D at -10.8. |

| **Compliance Review** | |
|---|---|
| **Description** | **Notes and Qualifiers** |
| Any holding time violations? | No. |
| Any compounds present in method, trip and field blanks? | No |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY18083 |
| Date Completed: January 15, 2007 | Data Validation Chemist: B. Krajewski |

| Compliance Review | |
|---|---|
| **Description** | **Notes and Qualifiers** |
| Were any analytes flagged for blank contamination?<br>*For samples, if results are <5 times the blank or <10 times blank for common laboratory contaminants then "U" flag data. Qualification also applies to TICs reported with GC/MS.* | No |
| Surrogate for method blanks and LCS within limits? | NA |
| Surrogate for samples and MS/MSD within limits?<br><br>Were appropriate samples re-analyzed?<br>*All samples should be re-analyzed for VOCs*. | NA |
| MS/MSD within QC criteria?<br><br>*If out and LCS is compliant, then J flag positive data in original sample due to matrix.* | NA |
| LCS within QC criteria?<br><br>*If out, and the recovery high with no positive values, then no data qualification is required. Positive results are "J" flagged and non-detects are "J" flagged if low. Reject data with recovery <10%.* | No – Vinyl chloride recovery high at 140% for EA122706LCS. Not detected in associated samples. No results qualified. |
| Were any samples re-analyzed or diluted?<br><br>*For any sample re-analysis and dilutions ensure that only one result per sample and analyte is flagged as reportable.* | Yes – Purge volume of 125 mL used for all samples (denoted as 4x dilution) |
| Do field duplicate results show good precision for all compounds except TICs? | Yes |

| Compliance Review by Method | | |
|---|---|---|
| **Method** | **Description** | **Notes and Qualifiers** |
| GC/MS | Do internal standards areas and retention time meet criteria?<br><br>*Samples should be re-analyzed to establish matrix effects or chromatograms documenting matrix effects provided.* | Yes |
| GC/MS | Does initial calibration meet criteria for all positive target compounds? (%RSD≤30) Note that two compounds can have less than 40%. | Yes. |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY18083 |
| Date Completed: January 15, 2007 | Data Validation Chemist: B. Krajewski |

| Compliance Review by Method | | |
|---|---|---|
| **Method** | **Description** | **Notes and Qualifiers** |
| | Is the minimum response factor must be met for all compounds? (≤0.05) | Yes. |
| GC/MS | Does continuing calibration meet criteria for all positive target compounds? (%D ± 30%) | Yes |
| | Is the minimum response factor must be met for all compounds? (≤0.05) | Yes. |

| Summary of Potential Impacts on Data Usability |
|---|
| **Major Concerns** |
| None |
| **Minor Concerns** |
| None |

Key:

CCV = Continuing calibration verification
COC = Chain-of-custody
GC/MS = Gas Chromatography/Mass Spectrometry
NA = Not Applicable
LCS = Laboratory Control Sample
MS/MSD = Matrix Spike/Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
TIC = Tentatively Identified Compound
VOCs = Volatile Organic Compounds

## Table 1 Sample Listing

| Lab Sample ID | Client Sample ID | Matrix | Sample Date | Method | ID Corrections |
|---|---|---|---|---|---|
| 695798 | 774-IA1 | Air | 12/20/2006 | Method TO15 | |
| 695799 | 785-IA1 | Air | 12/20/2006 | Method TO15 | |
| 695800 | OBGWV-TB3 | Air | 12/20/2006 | Method TO15 | |
| 695801 | 786-IA1 | Air | 12/20/2006 | Method TO15 | |
| 695802 | 786-IA2 | Air | 12/20/2006 | Method TO15 | |
| 695803 | 786-IA2/D | Air | 12/20/2006 | Method | |

| Data Usability Summary Report | Project: Griffiss AFB |
|---|---|
| Laboratory: STL-Burlington | LAB SDG ID: NY18083 |
| Date Completed: January 15, 2007 | Data Validation Chemist: B. Krajewski |

| Lab Sample ID | Client Sample ID | Matrix | Sample Date | Method | ID Corrections |
|---|---|---|---|---|---|
| | | | | TO15 | |
| 695804 | 786-OA1 | Air | 12/20/2006 | Method TO15 | |
| 695805 | WSA-OA1 | Air | 12/20/2006 | Method TO15 | |
| 695806 | 774-IA2/D | Air | 12/20/2006 | Method TO15 | |
| 695807 | 774-IA2 | Air | 12/20/2006 | Method TO15 | |
| 695808 | WSA-IA1 | Air | 12/20/2006 | Method TO15 | |
| 695809 | 776-IA1 | Air | 12/20/2006 | Method TO15 | |
| 695810 | 776-IA2 | Air | 12/20/2006 | Method TO15 | |
| 695811 | 774-OA1 | Air | 12/20/2006 | Method TO15 | |
| 695812 | 785-IA2 | Air | 12/20/2006 | Method TO15 | |

**Table 2 Summary of Qualified Data**

None

**Table 3 Field Duplicate Results**

| Analyte | Units | PQL | 786-IA2 | | 786-IA2/D | | RPD | RPD Rating |
|---|---|---|---|---|---|---|---|---|
| Benzene | ug/m3 | 0.13 | 1.2 | | 1.2 | | 0.0 | Good |

| Analyte | Units | PQL | 774-IA2 | | 774-IA2/D | | RPD | RPD Rating |
|---|---|---|---|---|---|---|---|---|
| Benzene | ug/m3 | 0.13 | 1.5 | | 1.3 | | 14.3 | Good |
| Trichloroethene | ug/m3 | 0.21 | 3.4 | | 3.0 | | 12.5 | Good |

Key:

FD = Field Duplicate
NC = Not Calculated
ND = Not Detected
PQL = Practical Quantitation Limit
RPD = Relative Percent Difference

# G

# Assumptions and Screening Levels for Soil Vapor Intrusion Evaluation Industrial/Commercial Scenario

# Assumptions and Screening Levels for Soil Vapor Intrusion Evaluation

# Industrial/Commercial Scenario

**Prepared for:**
**Air Force Real Property Agency**

**Prepared by:**
**FPM Group**
**153 Brooks Road**
**Rome, NY 13441**

**Contract F41624-03-D-8601-0045**

**Revision 0.1**

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# LIST OF EXHIBITS

**EXHIBIT**
**A** Indoor Air Screening Levels - Exposure Assumptions And Adjustment Factors, Industrial/Commercial Scenario

**B** Soil Vapor Screening Levels - Exposure Assumptions And Adjustment Factors, Industrial/Commercial Scenario

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# LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| **AFIOH** | Air Force Institute of Operational Health |
| **AFRPA** | Air Force Real Property Agency |
| **$AT_c$** | Averaging Time for Carcinogens |
| **$AT_{nc}$** | Averaging Time for Noncarcinogens |
| **ATSDR** | Agency for Toxic Substances and Disease Registry |
| **BW** | Body Weight |
| **Cal EPA** | California Environmental Protection Agency |
| **Cindoor air** | indoor air concentration |
| **Csoil vapor** | Soil vapor screening level concentration |
| **Csub-slab vapor** | Sub-slab vapor screening level concentration |
| **CSF** | cancer slope factor |
| **ED** | Exposure Duration |
| **EF** | Exposure Frequency |
| **EPA** | U.S. Environmental Protection Agency |
| **HEAST** | Health Effects Assessment Summary Tables |
| **HEAST-A** | HEAST-Alternative |
| **IR** | Inhalation Rate |
| **IRIS** | Integrated Risk Information System |
| **MRL** | Minimal Risk Level |
| **NCEA** | National Center for Environmental Assessment |
| **OSWER** | Office of Solid Waste and Emergency Response |
| **PPRTVs** | Provisional Peer Reviewed Toxicity Values |
| **PRG** | Preliminary Remediation Goal |
| **$RBSL_{airNC}$** | non-cancer risk-based screening levels for indoor air |
| **$RBSL_{airC}$** | cancer risk-based screening level for indoor air |
| **RfC1** | reference concentration |
| **RfCi** | inhalation reference concentration |
| **$RfCi_{adjustment}$** | RfCi adjustment factor |
| **RfD** | reference dose |
| **$SF_i$** | inhalation slope factor |
| **STSC** | Superfund Health Risk Technical Support Center |

| | |
|---|---|
| **SVI** | Soil Vapor Intrusion |
| **TCE** | trichloroethene |
| **THQ** | Target Hazard Quotient |
| **TR** | Target Risk |
| **URF** | Unit Risk Factor |
| $\mathbf{URF_{adjustment}}$ | URF adjustment factor |
| $\mathbf{URF_i}$ | Inhalation Unit Risk Factor |
| $\boldsymbol{\alpha_{soil\ vapor}}$ | Soil Vapor-to-Indoor Attenuation Factor |
| $\boldsymbol{\alpha_{sub\text{-}slab\ vapor}}$ | Sub-slab Vapor-to-Indoor Attenuation Factor |

# 1 INTRODUCTION

The Air Force Real Property Agency (AFRPA) is assessing the potential for soil vapor intrusion (SVI) at property with ongoing or planned industrial/commercial use. This document lays out the baseline assumptions and calculations for SVI evaluations that have been performed in New York by AFRPA. AFRPA contracted FPM Group, Ltd., to prepare this document in coordination with the Air Force Institute of Operational Health (AFIOH). This basis for evaluation has been prepared to document the methodology for calculating human health risk-based concentrations for inhalation of indoor air and for soil vapor under an industrial/commercial scenario.

The risk-based concentrations established in this guideline (screening values) utilize conservative assumptions that are intended for SVI screening analysis. The AFRPA industrial/commercial SVI screening levels are not intended to replace a more formal human health risk analysis process that incorporates site-specific risk management considerations. The following sections document the exposure assumptions, toxicity data, risk-based calculations for indoor air, and risk-based calculations for sub-slab vapor and soil vapor utilized in developing the AFRPA Industrial/Commercial SVI Screening Levels.

# 2 EXPOSURE ASSUMPTIONS

Under an industrial/commercial scenario, adult workers' exposure has been assumed in accordance with the U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response (OSWER). In some cases, AFRPA's assumptions are more conservative. The assumptions are as follows:

- Inhalation Rate (IR) of 10 $m^3$/day. The rate is derived from the daily (24 hours/day) residential inhalation rate of 20 $m^3$/day (OSWER Directive [EPA 1991]) adjusted to an industrial/commercial exposure of 12 hours/day.

- Exposure Frequency (EF) of 250 days/year (representing 2 weeks for vacations, holidays, and sick-time). It should be noted that is assumption is more conservative than 225 days/year assumed in the OSWER Directive (EPA 1991).

- Exposure Duration (ED) of 25 years (OSWER Directive [EPA 1991]).

- Averaging Time for Carcinogens ($AT_c$) of 365 days/year and 70 years (EPA 1989, 1991)

- Averaging Time for Noncarcinogens ($AT_{nc}$) of 365 days/year and 25 years (EPA 1989, 1991)

- Adult Body Weight (BW) = 70 kg (EPA 1991)

# 3 TOXICITY DATA

In accordance with OSWER Directive 9285.7-53 (EPA, 2003) and Air Force policy issued as the Air Force Toxicity Values for Use in Risk Assessments and Establishing Risk-Based Cleanup Levels (AF 2006), toxicity values were selected in accordance with the following hierarchy:

**Tier 1- EPA's Integrated Risk Information System (IRIS)**

**Tier 2- EPA's Provisional Peer Reviewed Toxicity Values (PPRTVs)** – The Office of Research and Development/National Center for Environmental Assessment (NCEA)/Superfund Health Risk Technical Support Center (STSC) develops PPRTVs on a chemical specific basis when requested by EPA's Superfund program.

**Tier 3- Other Toxicity Values** – Tier 3 includes additional EPA and non-EPA sources of toxicity information. Priority should be given to those sources of information that are the most current, the basis for which is transparent and publicly available, and which have been peer reviewed.

IRIS remains in the first tier of the recommended hierarchy as the generally preferred source of human health toxicity values. IRIS generally contains reference doses (RfDs), reference concentrations (RfCs), cancer slope factors (CSFs), drinking water unit risk values, and inhalation Unit Risk Factors (URFs) that have gone through a peer review and EPA consensus review process. IRIS normally represents the official EPA scientific position regarding the toxicity of the chemicals based on the data available at the time of the review.

The second tier is EPA's PPRTVs. Generally, PPRTVs are derived for one of two reasons. First, the STSC is conducting a batch wise review of the toxicity values in Superfund Health Effects Assessment Summary Tables (HEAST), now a Tier 3 source. As such reviews are completed, those toxicity values will be removed from HEAST, and any new toxicity value developed in such a review will be a PPRTV and placed in the PPRTV database. Secondly, Regional Superfund Offices may request a PPRTV for contaminants lacking a relevant IRIS value. The STSC uses the same methodologies to derive PPRTVs for both.

The third tier includes other sources of information. Priority should be given to sources that provide toxicity information based on similar methods and procedures as those used for Tier I and Tier II, contain values which are peer reviewed, are available to the public, and are transparent about the methods and processes used to develop the values.

Additional sources may be identified for Tier 3. Toxicity values that fall within the third tier in the hierarchy include, but need not be limited to, the following sources:

- The California Environmental Protection Agency (Cal EPA) toxicity values are peer reviewed and address both cancer and non-cancer effects. Cal EPA toxicity values are available on the Cal EPA internet website at http://www.oehha.ca.gov/risk/chemicalDB//index.asp.

- The Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (MRLs) are estimates of the daily human exposure to a hazardous substance that is likely to be without appreciable risk of adverse non-cancer health effects over a specified duration of exposure. The ATSDR MRLs are peer reviewed and are available at http://www.atsdr.cdc.gov/mrls.html on the ATSDR website.

- HEAST toxicity values are Tier 3 values. As noted above, the STSC is conducting a batch wise review of HEAST toxicity values. The toxicity values remaining in HEAST are considered Tier 3 values. The HEAST values on chemical contaminants are not currently available on an EPA internet site. They may be obtained by contacting a Superfund risk assessor. For this evaluation, referenced HEAST toxicity values were obtained from EPA's OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance), EPA 530-D-02-2004, November 2002 containing HEAST, EPA-NCEA, and HEAST Alternate (HEAST-A) values.

# 4 RISK-BASED SCREENING LEVEL FOR INDOOR AIR

## 4.1 Cancer screening value calculations

The cancer screening values were calculated from Inhalation URF ($URF_i$) values. These URF values were researched and applied in the order described in Section 3. The URF is the estimated probability of a person contracting cancer as a result of constant exposure to an ambient concentration of one microgram per cubic meter of a substance over a 70 year lifetime.

URF, which is risk per unit concentration, is converted to risk per unit dose or an inhalation slope factor ($SF_i$) assuming a body weight of 70 kg and a daily (24 hours) inhalation rate of 20 $m^3$ (see Formula 1, adopted from EPA, 2004a).

$$SF_i = \frac{URF\left(\frac{\mathrm{m}^3}{\mu\mathrm{g}}\right)\times 10^3\left(\frac{\mu\mathrm{g}}{\mathrm{mg}}\right)\times 70(\mathrm{kg})}{20\left(\frac{\mathrm{m}^3}{\mathrm{day}}\right)} \qquad (1)$$

The cancer risk-based screening level for indoor air ($RBSL_{airC}$) is calculated by first calculating the URF adjustment factor ($URF_{adjustment}$) to adjust for the industrial/commercial scenario exposure assumptions (see Formula 2). The adjustments account for a 12 hour-daily exposure or an inhalation rate of 10 $m^3$/day instead of 20 $m^3$/day; exposure duration of 25 years instead of 70 years; and exposure frequency of 250 days/year instead of 365 days/year.

$$URF_{adjustment} = \frac{IR}{20} X \frac{ED}{AT_c} X \frac{EF}{365} \qquad (2)$$

Once the URF adjustment factor is calculated, the $RBSL_{airC}$ is calculated using the Target Risk (TR) as shown in Formula 3. The TR assumed for calculating the $RBSL_{airC}$ values was 1 X $10^{-4}$ for all chemicals, except trichloroethene (TCE). For TCE, a TR of 1 X $10^{-5}$ was utilized to account for uncertainty associated with the TCE URF value. The selected target risk values are within EPA's acceptable excess cancer risk range of one in ten thousand and one in one million (1 x $10^{-4}$ to 1 x $10^{-6}$).

$$RBSL_{airC} = \frac{TR}{URF \times URF_{adjustment}} \qquad (3)$$

Exhibit A summarizes all exposure assumptions, target risk values, and the above-described calculations required to adjust the URF for the assumed industrial/commercial scenario. Table 1 identifies the values and source of the URFs utilized as well as the resulting cancer risk-based concentrations.

### 4.2 Non-cancer screening value calculations

The non-cancer risk-based screening levels for indoor air ($RBSL_{airNC}$) were calculated by adjusting the Reference Concentrations for Inhalation (RfCi) to the assumed industrial/commercial scenario. RfCi is an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime.

$RBSL_{airNC}$ is calculated by first calculating the RfCi adjustment factor ($RfCi_{adjustment}$) to adjust for the industrial/commercial scenario exposure assumptions (see Formula 4). The adjustments account for 12 hour daily exposure or an inhalation rate of 10 $m^3$/day instead of 20 $m^3$/day and exposure frequency of 250 days/year instead of 365 days/year.

$$RfCi_{adjustment} = \frac{IR}{20} X \frac{EF}{365} \qquad (4)$$

Once the RfCi adjustment factor is calculated, the $RBSL_{airNC}$ was calculated using the Target Hazard Quotient (THQ) as shown in Formula 5. The THQ assumed for calculating the $RBSL_{airNC}$ values was 1 for all compounds.

$$RBSL_{airNC} = \frac{THQ\ X\ RfCi}{RfCi_{adjustment}} \qquad (5)$$

Exhibit A summarizes all exposure assumptions, target hazard quotient value, and the above-described calculations required to adjust the RfCi for the assumed industrial/commercial scenario. Table 1 identifies the values and source of all RfCi values utilized as well as the resulting non-cancer risk-based concentrations.

### 4.3 Indoor Air Screening Levels

To identify the indoor air screening levels, the lower of cancer risk-based concentrations or non-cancer risk-based concentrations were selected as shown in Table 1.

## 5 SOIL GAS SCREENING LEVELS

To facilitate evaluation of the potential for SVI, soil gas is typically evaluated in two forms of samples: sub-slab vapor samples and soil vapor samples. Sub-slab vapor samples are soil gas samples collected immediately beneath a foundation or slab of a building. Sub-slab vapor samples are generally collected at a depth of two inches in the sub-base material through a hole drilled in the foundation or slab. Soil vapor samples are defined as soil gas samples not beneath the foundation or slab of a building. These are generally collected from 5 feet below ground surfaces or deeper.

### 5.1 Sub-Slab Vapor Screening Levels

For sub-slab vapor samples, screening levels were derived using risk-based indoor air concentrations. The exposure assumptions and methodology for developing the risk-based indoor air concentrations followed Sections 2 though 4, with the exception of using a cancer Target Risk value of $1 \times 10^{-5}$ for all chemicals.

The sub-slab vapor screening level concentration (Csub-slab vapor) corresponding to a chemical's indoor air screening level (lower of cancer and con-cancer risk-based concentrations) was calculated by dividing the indoor air screening level by a conservatively assumed sub-slab vapor-to-indoor air attenuation factor as shown in Formula 6.

$$Csub-slabvapor = \frac{Cindoor\ air}{\alpha_{sub-slab}} \qquad (6)$$

The Sub-slab Vapor-to-Indoor Attenuation Factor ($\alpha_{sub\text{-}slab}$) represents the factor by which

sub-slab vapor concentrations migrating into indoor air spaces are reduced due to diffusive, advective, and/or other attenuating mechanisms. α represents the ratio of the indoor air concentration measured in a structure (Cindoor air) to the vapor concentrations measured in the subsurface materials underlying the structure (Csub-slab vapor). A 10% value for α was conservatively selected and represents that 10% or less of the indoor air originates from the sub-slab vapor (USEPA, 2002).

Exhibit B summarizes all exposure assumptions, target risk value, target hazard quotient, sub-slab vapor-to-gas attenuation factor and the above-described calculations required to calculate the risk-based indoor air concentrations and subsequent sub-slab vapor screening level for the assumed industrial/commercial scenario. Table 2 identifies the values and source of the URFs and RfCis; the resulting cancer risk-based concentrations; and the derived sub-slab vapor screening levels.

## 5.2 Soil Vapor Screening Levels

For soil vapor samples, screening levels were derived using risk-based indoor air concentrations following the same methodology identified for sub-slab vapor screening levels. However, in accordance with EPA guidance applicable to soil vapor or deep soil gas (e.g., soil gas samples taken at depths greater than approximately 5 feet below the foundation level), a $\alpha_{soil\ vapor}$ value of 1% was conservatively assumed to calculate the soil vapor screening levels (USEPA, 2002).

As a result, the soil vapor screening level concentration (Csoil vapor) corresponding to a chemical's indoor air screening level (lower of cancer and con-cancer risk-based concentrations) was calculated by dividing the indoor air screening level by a conservatively assumed soil vapor-to-indoor air attenuation factor as shown in Formula 7.

$$Csoilvapor = \frac{Cindoor\ air}{\alpha_{soilvapor}} \qquad (7)$$

Exhibit B summarizes all exposure assumptions, target risk value, target hazard quotient, soil vapor-to-gas attenuation factor and the above-described calculations required to calculate the risk-based indoor air concentrations and subsequent soil vapor screening level for the assumed industrial/commercial scenario. Table 2 identifies the values and source of the URFs and RfCis; the resulting cancer risk-based concentrations; and the derived soil vapor screening levels.

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## EXHIBIT A
## INDOOR AIR SCREENING LEVELS - EXPOSURE ASSUMPTIONS AND ADJUSTMENT FACTORS, INDUSTRIAL/COMMERCIAL SCENARIO

| | | | | |
|---|---|---|---|---|
| **Averaging Time for Cancer ($AT_c$)=** | **70** | **years** | **Target Risk (TR)=** | **1.0E-04** |
| **Exposure Duration (ED)=** | **25** | **years** | **Target Risk for TCE ($TR_{tce}$)=** | **1.0E-05** |
| **Exposure Frequency (EF)=** | **250** | **days/year** | **Target Hazard Quotient (THQ)=** | **1** |
| **Inhalation Rate (IR)=** | **10** | **$m^3$/day** | **Cancer Exposure Adjustment Factor[1] =** | **0.122** |
| **Daily Exposure Duration=** | **12** | **hours** | **Non-Cancer Exposure Adjustment Factor[2] =** | **0.342** |
| **Body Weight (BW)=** | **70** | **kg** | | |

Notes:

1. Cancer Exposure Adjustment Factor represents the variation of the industrial scenario from the standard residential assumptions.
   It is the product of the following ratios of industrial to residential assumptions: 12/24 hr/day x 250/365 day/yr x 25/70 yr/lifetime
   Target Cancer Concentration = (TR)/(URF*Cancer Adjustment Factor)

2. Non-cancer Exposure Adjustment Factor represents the variation of the industrial scenario from the standard residential assumptions.
   It is the product of the following ratios of industrial to residential assumptions: 12/24 hr/day x 250/365 day/yr
   Target Non-Cancer Concentration = (THQ * RfCi)/(Non-cancer Adjustment Factor)

URF - Unit Risk Factor. URF is the estimated probability of a person contracting cancer as a result of constant exposure to an ambient concentration of one microgram per cubic meter of a substance over a 70 year lifetime. URF, which is risk per unit concentration, is converted from risk per unit dose (slope factor) assuming a body weight of 70 kg and a daily (24 hours) inhalation rate of 20 $m^3$.

RfCi - Reference Concentration for Inhalation is an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime.

## TABLE 1: INDOOR AIR SCREENING LEVELS, INDUSTRIAL/COMMERCIAL SCENARIO

| Analyte | Unit Risk Factor Source[1] | Inhalation Unit Risk Factor (URF) $(\mu g/m^3)^{-1}$ | Cancer Indoor Air Risk Based Concentration[2] $(\mu g/m^3)$ | Reference Concentration Source[1] | Inhalation Reference Concentration (RfCi) $(mg/m^3)$ | Non-Cancer Indoor Air Risk Based Concentration[3] $(\mu g/m^3)$ | Indoor Air Screening Concentration[4] $(\mu g/m^3)$ |
|---|---|---|---|---|---|---|---|
| benzene | IRIS | 7.80E-06 | 105 | IRIS | 0.030 | 88 | 88 |
| carbon disulfide | - | - | - | IRIS | 0.700 | 2,044 | 2,044 |
| carbon tetrachloride | IRIS | 1.50E-05 | 55 | - | - | - | 55 |
| chloroform | IRIS | 2.30E-05 | 36 | - | - | - | 36 |
| chloromethane (methyl chloride) | EPA-NCEA | 1.00E-06 | 818 | IRIS | 0.090 | 263 | 263 |
| allyl chloride (3-chloropropene) | - | - | - | IRIS | 0.001 | 3 | 3 |
| cyclohexane | - | - | - | IRIS | 6.000 | 17,520 | 17,520 |
| 1,3-dichlorobenzene | - | - | - | EPA-NCEA | 0.110 | 321 | 321 |
| 1,4-dichlorobenzene | - | - | - | IRIS | 0.800 | 2,336 | 2,336 |
| 1,2-dichloroethane | IRIS | 2.60E-05 | 31 | - | - | - | 31 |
| cis-1,2-dichloroethylene | - | - | - | HEAST | 0.035 | 102 | 102 |
| ethyl acetate | - | - | - | EPA-NCEA | 3.200 | 9,344 | 9,344 |
| ethylbenzene | EPA-NCEA | 1.10E-06 | 743 | IRIS | 1.000 | 2,920 | 743 |
| n-hexane | - | - | - | IRIS | 0.700 | 2,044 | 2,044 |
| freon 11 (trichlorofluoromethane) | - | - | - | HEAST-A | 0.700 | 2,044 | 2,044 |
| freon 113 (1,1,2-trichlorotrifluoroethane) | - | - | - | HEAST | 30.000 | 87,600 | 87,600 |
| freon 12 (dichlorodifluoromethane) | - | - | - | HEAST | 0.200 | 584 | 584 |
| methyl ethyl ketone | - | - | - | IRIS | 5.000 | 14,600 | 14,600 |
| methyl isobutyl ketone | - | - | - | IRIS | 3.000 | 8,760 | 8,760 |
| methyl tert-butyl ether (MTBE) | - | - | - | IRIS | 3.000 | 8,760 | 8,760 |
| methylene chloride (dichloromethane) | IRIS | 4.70E-07 | 1740 | HEAST | 3.000 | 8,760 | 1,740 |
| styrene | - | - | - | IRIS | 1.000 | 2,920 | 2,920 |
| tetrachloroethylene (pce) | CalEPA | 5.90E-06 | 139 | CalEPA | 0.035 | 102 | 102 |
| toluene | - | - | - | IRIS | 5.000 | 14,600 | 14,600 |
| 1,1,1-trichloroethane | - | - | - | IRIS | 5.000 | 14,600 | 14,600 |
| trichloroethene (tce) | CalEPA | 2.00E-06 | 41 | CalEPA | 0.600 | 1,752 | 41 |
| 1,2,4-trimethylbenzene | - | - | - | EPA-NCEA | 0.006 | 18 | 18 |
| 1,3,5-trimethylbenzene (mesitylene) | - | - | - | EPA-NCEA | 0.006 | 18 | 18 |
| Vinyl chloride | IRIS | 4.40E-06 | 186 | IRIS | 0.100 | 292 | 186 |
| xylenes, total | - | - | - | IRIS | 0.100 | 292 | 292 |

Notes:

" - " Means no value was available to calculate cancer risk based concentrations or non-cancer risk values for this analyte in indoor air.

1. Unit Risk Factors and Reference Concentrations used to calculate target concentrations based on industrial exposure were taken from:

- CalEPA - California Environmental Protection Agency Air Toxics Hot Spots Program. Unit Risk Factors obtained from http://www.oehha.ca.gov/air/hot_spots/pdf/TSDNov2002.pdf. Reference Concentrations obtained from http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html

- EPA-OSWER - United States Environmental Protection Agency (USEPA), OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance), EPA 530-D-02-2004, November 2002 containing Superfund Health Effects Assessment Summary Tables (HEAST), EPA-National Center for Environmental Assessment (NCEA), and HEAST Alternate (HEAST-A) values.

- IRIS - USEPA Integrated Risk Information System (IRIS), Database for Risk Assessment, accessed October 5, 2007 at http://www.epa.gov/iris/

2. Target indoor air cancer concentrations calculated based **1 x $10^{-4}$ Target Risk (1 x $10^{-5}$ for TCE)**. Industrial exposure assumptions utilized to adjust Unit Risk Factors include an averaging time of 70 years; exposure frequency of 250 days/year; exposure duration of 25 years; and daily inhalation rate of 10 $m^3$/day (or 12 hours/day exposure).

3. Target indoor air non-cancer concentrations calculated based a **Target Hazard Quotient of 1**. Industrial exposure assumptions utilized to adjust Reference Concentrations include an exposure frequency of 250 days/year and daily inhalation rate of 10 $m^3$/day (or 12 hours/day exposure).

4. Indoor Air Screening concentrations are based on the lowest of the cancer or non-cancer risk-based concentrations.

**EXHIBIT B**
**SOIL GAS SCREENING LEVELS - EXPOSURE ASSUMPTIONS AND ADJUSTMENT FACTORS, INDUSTRIAL/COMMERCIAL SCENARIO**

| | | | | |
|---|---|---|---|---|
| **Averaging Time for Cancer ($AT_c$)=** | **70** | **years** | **Target Risk (TR)=** | **1.0E-05** |
| **Exposure Duration (ED)=** | **25** | **years** | **Target Risk for TCE ($TR_{tce}$)=** | **1.0E-05** |
| **Exposure Frequency (EF)=** | **250** | **days/year** | **Target Hazard Quotient (THQ)=** | **1** |
| **Inhalation Rate (IR)=** | **10** | **$m^3$/day** | **Cancer Exposure Adjustment Factor[1] =** | **0.122** |
| **Daily Exposure Duration=** | **12** | **hours** | **Non-Cancer Exposure Adjustment Factor[2] =** | **0.342** |
| **Body Weight (BW)=** | **70** | **kg** | **Sub-slab vapor-to-Indoor Air Attenuation Factor[3] ($\alpha_{sub\ slab}$)=** | **0.1** |
| | | | **Soil vapor-to-Indoor Air Attenuation Factor[4] ($\alpha_{soil\ vapor}$)=** | **0.01** |

Notes:

1. Cancer Exposure Adjustment Factor represents the variation of the industrial scenario from the standard residential assumptions.
   It is the product of the following ratios of industrial to residential assumptions: 12/24 hr/day x 250/365 day/yr x 25/70 yr/lifetime
   Target Cancer Concentration = (TR)/(URF*Cancer Adjustment Factor)

2. Non-cancer Exposure Adjustment Factor represents the variation of the industrial scenario from the standard residential assumptions.
   It is the product of the following ratios of industrial to residential assumptions: 12/24 hr/day x 250/365 day/yr
   Target Non-Cancer Concentration = (THQ * RfCi)/(Non-cancer Adjustment Factor)

3. Sub-slab Vapor-to-Indoor attenuation Factor ($\alpha_{sub\ slab}$) represents the ratio of the indoor air concentration measured in a structure ($C_{indoor\ air}$) to the sub-slab vapor concentrations measured in the subsurface materials immediately underlying the structure ($C_{sub\text{-}slab\ vapor}$ ).
   $C_{sub\text{-}slab\ vapor} = C_{indoor\ air} / \alpha_{sub\ slab}$

4. Soil Vapor-to-Indoor attenuation Factor ($\alpha_{soil\ vapor}$) represents the ratio of the indoor air concentration measured in a structure ($C_{indoor\ air}$) to the soil vapor concentrations measured in the subsurface materials approximately 5 feet below ground surface ($C_{soil\ vapor}$ ).
   $C_{soil\ vapor} = C_{indoor\ air} / \alpha_{soil\ vapor}$

URF - Unit Risk Factor. URF is the estimated probability of a person contracting cancer as a result of constant exposure to an ambient concentration of one microgram per cubic meter of a substance over a 70 year lifetime. URF, which is risk per unit concentration, is converted from risk per unit dose (slope factor) assuming a body weight of 70 kg and a daily (24 hours) inhalation rate of 20 $m^3$.

RfCi - Reference Concentration for Inhalation is an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime.

## TABLE 2: SOIL GAS SCREENING LEVELS, INDUSTRIAL/COMMERCIAL SCENARIO

| Analyte | Unit Risk Factor Source[1] | Inhalation Unit Risk Factor (URF) $(\mu g/m^3)^{-1}$ | Cancer Indoor Air Risk Based Concentration[2] $(\mu g/m^3)$ | Reference Concentration Source[1] | Inhalation Reference Concentration (RfCi) $(mg/m^3)$ | Non-Cancer Indoor Air Risk Based Concentration[3] $(\mu g/m^3)$ | Sub-slab Vapor Screening Concentration[4] $(\mu g/m^3)$ | Soil Vapor Screening Concentration[5] $(\mu g/m^3)$ |
|---|---|---|---|---|---|---|---|---|
| benzene | IRIS | 7.80E-06 | 10 | IRIS | 0.030 | 88 | 105 | 1,048 |
| carbon disulfide | - | - | - | IRIS | 0.700 | 2,044 | 20,440 | 204,400 |
| carbon tetrachloride | IRIS | 1.50E-05 | 5 | - | - | - | 55 | 545 |
| chloroform | IRIS | 2.30E-05 | 4 | - | - | - | 36 | 355 |
| chloromethane (methyl chloride) | EPA-NCEA | 1.00E-06 | 82 | IRIS | 0.090 | 263 | 818 | 8,176 |
| allyl chloride (3-chloropropene) | - | - | - | IRIS | 0.001 | 3 | 29 | 292 |
| cyclohexane | - | - | - | IRIS | 6.000 | 17,520 | 175,200 | 1,752,000 |
| 1,3-dichlorobenzene | - | - | - | EPA-NCEA | 0.110 | 321 | 3,212 | 32,120 |
| 1,4-dichlorobenzene | - | - | - | IRIS | 0.800 | 2,336 | 23,360 | 233,600 |
| 1,2-dichloroethane | IRIS | 2.60E-05 | 3 | - | - | - | 31 | 314 |
| cis-1,2-dichloroethylene | - | - | - | HEAST | 0.035 | 102 | 1,022 | 10,220 |
| ethyl acetate | - | - | - | EPA-NCEA | 3.200 | 9,344 | 93,440 | 934,400 |
| ethylbenzene | EPA-NCEA | 1.10E-06 | 74 | IRIS | 1.000 | 2,920 | 743 | 7,433 |
| n-hexane | - | - | - | IRIS | 0.700 | 2,044 | 20,440 | 204,400 |
| freon 11 (trichlorofluoromethane) | - | - | - | HEAST-A | 0.700 | 2,044 | 20,440 | 204,400 |
| freon 113 (1,1,2-trichlorotrifluoroethane) | - | - | - | HEAST | 30.000 | 87,600 | 876,000 | 8,760,000 |
| freon 12 (dichlorodifluoromethane) | - | - | - | HEAST | 0.200 | 584 | 5,840 | 58,400 |
| methyl ethyl ketone | - | - | - | IRIS | 5.000 | 14,600 | 146,000 | 1,460,000 |
| methyl isobutyl ketone | - | - | - | IRIS | 3.000 | 8,760 | 87,600 | 876,000 |
| methyl tert-butyl ether (MTBE) | - | - | - | IRIS | 3.000 | 8,760 | 87,600 | 876,000 |
| methylene chloride (dichloromethane) | IRIS | 4.70E-07 | 174 | HEAST | 3.000 | 8,760 | 1,740 | 17,396 |
| styrene | - | - | - | IRIS | 1.000 | 2,920 | 29,200 | 292,000 |
| tetrachloroethylene (pce) | CalEPA | 5.90E-06 | 14 | CalEPA | 0.035 | 102 | 139 | 1,386 |
| toluene | - | - | - | IRIS | 5.000 | 14,600 | 146,000 | 1,460,000 |
| 1,1,1-trichloroethane | - | - | - | IRIS | 5.000 | 14,600 | 146,000 | 1,460,000 |
| trichloroethene (tce) | CalEPA | 2.00E-06 | 41 | CalEPA | 0.600 | 1,752 | 409 | 4,088 |
| 1,2,4-trimethylbenzene | - | - | - | EPA-NCEA | 0.006 | 18 | 175 | 1,752 |
| 1,3,5-trimethylbenzene (mesitylene) | - | - | - | EPA-NCEA | 0.006 | 18 | 175 | 1,752 |
| Vinyl chloride | IRIS | 4.40E-06 | 19 | IRIS | 0.100 | 292 | 186 | 1,858 |
| xylenes, total | - | - | - | IRIS | 0.100 | 292 | 2,920 | 29,200 |

Notes:

" - " Means no value was available to calculate cancer risk based concentrations or non-cancer risk values for this analyte in indoor air.

1. Unit Risk Factors and Reference Concentrations used to calculate target concentrations based on industrial exposure were taken from:

- CalEPA - California Environmental Protection Agency Air Toxics Hot Spots Program. Unit Risk Factors obtained from http://www.oehha.ca.gov/air/hot_spots/pdf/TSDNov2002.pdf. Reference Concentrations obtained from http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html

- EPA-OSWER - United States Environmental Protection Agency (USEPA), OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance), EPA 530-D-02-2004, November 2002 containing Superfund Health Effects Assessment Summary Tables (HEAST), EPA-National Center for Environmental Assessment (NCEA), and HEAST Alternate (HEAST-A) values.

- IRIS - USEPA Integrated Risk Information System (IRIS), Database for Risk Assessment, accessed October 5, 2007 at http://www.epa.gov/iris/

2. Target indoor air cancer concentrations are calculated based **1 x $10^{-5}$ Target Risk**. Industrial exposure assumptions utilized to adjust Unit Risk Factors include an averaging time of 70 years; exposure frequency of 250 days/year; exposure duration of 25 years; and daily inhalation rate of 10 $m^3$/day (or 12 hours/day exposure).

3. Target indoor air non-cancer concentrations calculated based a **Target Hazard Quotient of 1**. Industrial exposure assumptions utilized to adjust Reference Concentrations include an exposure frequency of 250 days/year and daily inhalation rate of 10 $m^3$/day (or 12 hours/day exposure).

4. Sub-slab Vapor Screening concentrations are based on the lowest of the cancer (**1 x $10^{-5}$ Target Risk**) or non-cancer risk (**Target Hazard Quotient of 1**), adjusted a Sub-slab vapor-to-Indoor Air Attenuation Factor of 10%.

5. Soil Vapor Screening concentrations are based on the lowest of the cancer (**1 x $10^{-5}$ Target Risk**) or non-cancer risk (**Target Hazard Quotient of 1**), adjusted a Soil vapor-to-Indoor Air Attenuation Factor of 1%.