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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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 $\mu g/m^3$, and TCE, detected at levels of 2,300 and 11,000 $\mu g/m^3$. TCE exceedances were also reported for Building 786 at concentrations of 700 J and 81,000 $\mu g/m^3$ (J indicates an estimated result). A PCE exceedance was also reported for Building 786 at 2,200 $\mu g/m^3$. 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 $\mu g/m^3$), but the concentrations were approximately two orders of magnitude lower that the screening criterion (88 $\mu g/m^3$). The detection in the outdoor sample (0.96 $\mu g/m^3$) was of the same magnitude as the indoor detections. One TCE detection was reported for Building 786, but the concentration (0.43 J $\mu g/m^3$) was two orders of magnitude lower than the screening criterion (41 $\mu g/m^3$). 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/m³)[1]	October 24, 2006					
		774-SSV1	774-SSV2	776-SSV1	776-SSV2	B782-SSV1	B782-SSV1/D
Volatiles TO-15 (ug/m³)							
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 (μg/m³)[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/m³)[1]	October 24, 2006					
		B782-SSV2	B783-SSV1	B783-SSV2	B784-SSV1	B784-SSV2	B785-SSV1
Volatiles TO-15 (ug/m³)							
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 (µg/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 (µg/m³)[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.
[shaded box] Indicates exceedance of the screening concentration.
J....... = Estimated.
µg/m³= 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 ($\mu g/m^3$)[1]	December 20, 2006						
		774-IA1	774-IA2	774-IA2/D	774-OA1	776-IA1	776-IA2	785-IA1
TO-15 ($\mu g/m^3$)								
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/m³)[1]	December 20, 2006							
		785-IA2	786-IA1	786-IA2	786-IA2/D	786-OA1	WSA-IA1	WSA-OA1	OBGWV-TB3
TO-15 (µg/m³)									
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/m³ .... = 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 (µg/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 (µg/m³)[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/m³) [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 ($\mu g/m^3$) [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 $\mu g/m^3$) exceeding screening levels in the sub-slab vapor beneath Buildings 785 and 786, chloroform (190 $\mu g/m^3$) exceeding screening levels beneath Building 785 only, and PCE (2,200 $\mu g/m^3$) 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 $\mu g/m^3$ in Building 786 and fairly uniform benzene detections of 1.1 $\mu g/m^3$ 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 $\mu g/m^3$) of the screening level (36 $\mu g/m^3$) 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 $\mu g/m^3$) exceeding screening levels in the sub-slab vapor beneath Buildings 774 and 776 and chloroform (54 $\mu g/m^3$) 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:**
Date/Time:	10/24/06	Canisters set at B785-SSV1
Photographer:	AH	

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

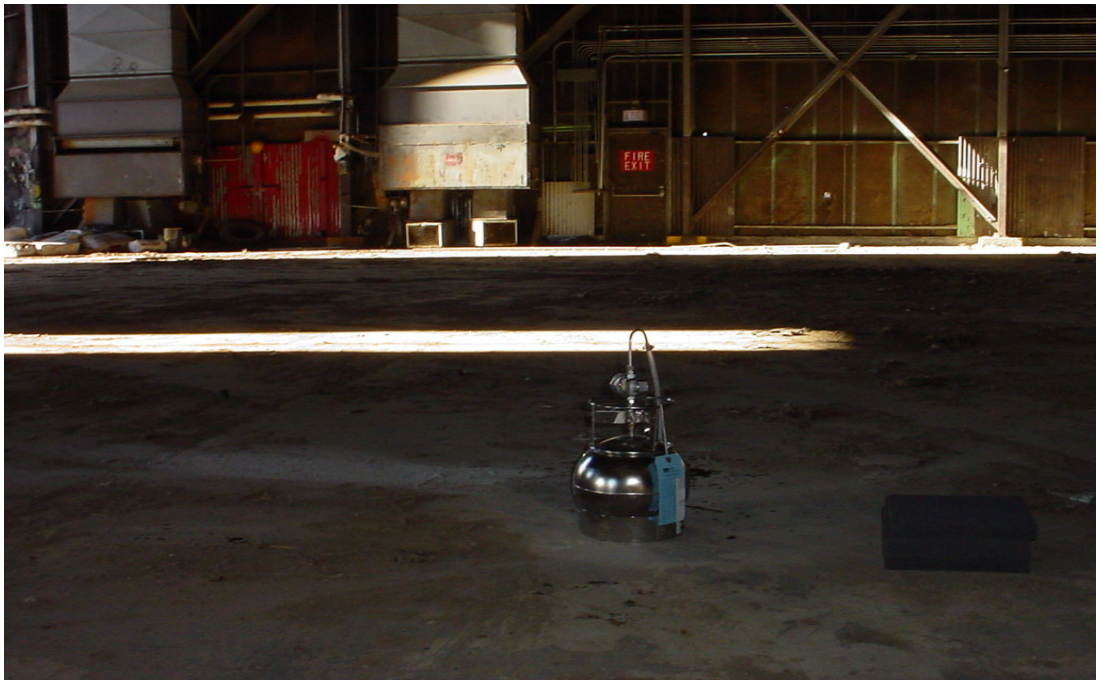
Photo/Frame No.:	SubSlab Vapor - 5	Description:
Date/Time:	10/24/06	Canisters set at B784-SSV1
Photographer:	AH	

Photo/Frame No.:	SubSlab Vapor - 6	Description:
Date/Time:	10/24/06	Canisters set at B784-SSV2
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:**
Date/Time:	10/18/06	AOC9 Soil Gas - 3
Photographer:	BC	

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

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

Photo/Frame No.:	Soil Vapor - 10	Description:
Date/Time:	10/18/06	AOC9 Collection of soil vapor sample
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:
Date/Time:	10/19/06	AOC9 – Soil Vapor Push
Photographer:	BC	

Photo/Frame No.:	Soil Vapor - 16	Description:
Date/Time:	10/19/06	AOC9 – Soil Vapor Rod and Plug
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:
Date/Time:	10/18/06	Soil Vapor Ground Seal to prevent leaks
Photographer:	BC	

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

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

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

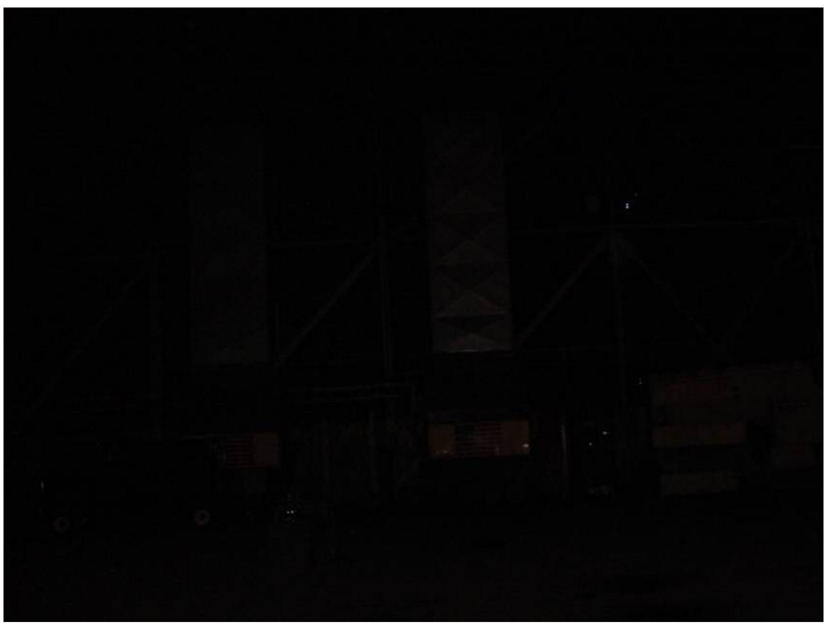
Photo/Frame No.:	Soil Vapor - 31	**Description:**
Date/Time:	12/20/06	SVI Sampling - Building 786 hose entering floor in center of the building.
Photographer:	RM	

Photo/Frame No.:	Soil Vapor - 32	**Description:**
Date/Time:	12/20/06	Cracks in Building 786 floor.
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:
Date/Time:	12/20/06	Concrete vault adjacent to steam pipe trench approx 1.5' by 6'; appears to have solid concrete bottom approx 1' deep.
Photographer:	RM	

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

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

Photo/Frame No.:	Soil Vapor - 42	Description:
Date/Time:	12/20/06	SVI Sampling - Building 774 IA1 location.
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:
Date/Time:	12/20/06	Building 774 janitors closet with miscellaneous cleaners.
Photographer:	RM	

Photo/Frame No.:	Soil Vapor - 46	Description:
Date/Time:	12/20/06	SVI Sampling - WSA-IA1 location.
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:
Date/Time:	12/21/06	Building 817 Lamotte combination soil test kit.
Photographer:	RM	

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

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

Photo/Frame No.:	Soil Vapor - 54	Description:
Date/Time:	12/21/06	Building 817 poly tank storage room at center of building.
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:
Date/Time:	12/21/06	Building 785 concrete sealer drum and used motor oil filter.
Photographer:	RM	

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

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

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

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

B Field Adjustment Forms

Field Adjustment Form No. SVI-1
Former Griffiss AFB

To: Mr. Douglas M. Pocze USEPA - Region 2 Federal Facilities Section 290 Broadway New York, New York 10007 Fax: (212) 637-3256 Office: (212 637-4432	Ms. Heather Bishop NYSDEC Division of Environmental Remediation 625 Broadway, 11th floor Albany, New York 12233-7015 Fax: (518) 402-9022 Office: (518) 402-9692
From: Mr. Michael McDermott AFBCA 153 Brooks Road Rome, NY 13441-4105 Fax: (315) 330-4062 Office: (315) 330-2275	Date: 10-23-06 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.

Roberta Meyers

Prepared by:	Organization	Date:
R Meyers (~~G. Florentino~~)	EEEPC	10-23-06
Approved by:	Org: USACE	Date:

Figure 3-1 Field Adjustment Form

<table>
<tr><td colspan="2">Field Adjustment Form No. 2
Former Griffiss AFB</td></tr>
<tr><td>To: Mr. Douglas M. Pocze
USEPA - Region 2
Federal Facilities Section
290 Broadway
New York, New York 10007
Fax: (212) 637-3256
Office: (212 637-4432</td><td>Ms. Heather Bishop
NYSDEC Division of Environmental Remediation
625 Broadway, 11th floor
Albany, New York 12233-7015
Fax: (518) 402-9022
Office: (518) 402-9692</td></tr>
<tr><td>From: Mr. Michael McDermott
AFBCA
153 Brooks Road
Rome, NY 13441-4105
Fax: (315) 330-4062
Office: (315) 330-2275</td><td>Date: 12-18-06
Time: 11:00 AM</td></tr>
<tr><td>Site: B775, Apron 2 and WSA/B817</td><td>Work Plan Section: 3 Page: 3-5</td></tr>
</table>

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: Robert Meyers	Organization EEEPC	Date: 12-18-06
Approved by: [signature]	Org: USACE	Date: 12-19-06

C

Indoor Air Quality Questionnaire and Building Inventory Forms

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 145 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, 20% turnover constantly 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.

Confidential

Location ID: B774

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:	concrete	dirt	stone	other ______	
d. Basement 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 "Base board"

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

Confidential

Location ID: B774

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 ☒ First floor Y / N If yes, where vented? Outside

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.

See Photos

Location ID: B774

14. PRODUCT INVENTORY FORM

Page 1 of 1

Make & Model of field instrument used: PPbRAE

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

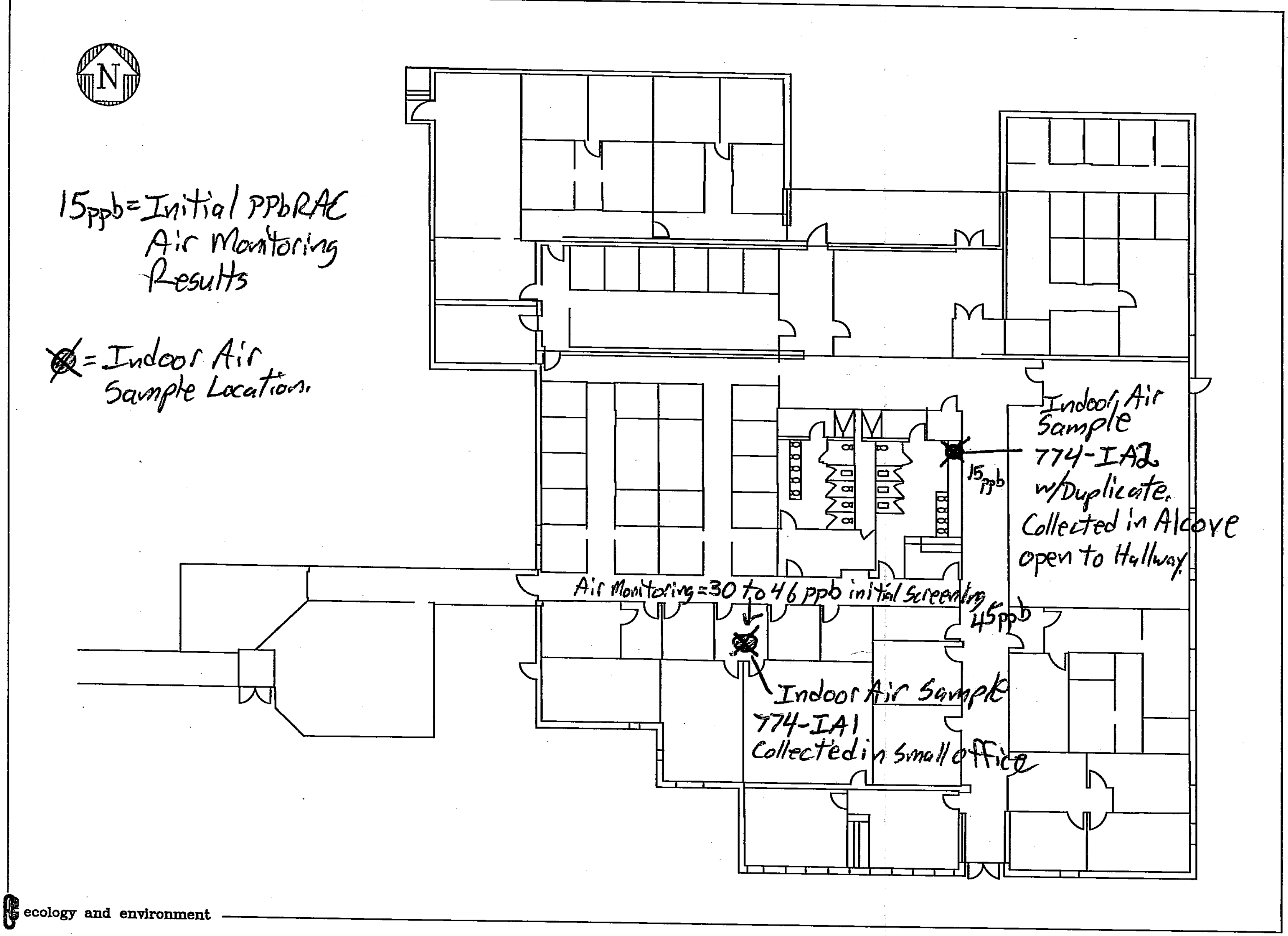
*Note ALL items are currently in use

Location	Product Description	Size (units)	Condition *	Chemical Ingredients	Field Instrument Reading (units)	Photo Y/N **
Janitor Closet	Soft Soap - Hand Soap	1 Gal	1/2 Full	Triclosan - 15%	0	Y
"	Dial Handsoap - liquid	1 Gal	1/2 Full	"	0	Y
"	Pracket - Duster Plus Dusting & Cleaning Spray	17 oz Aerosol	2/3 Full	Light Naphthenic distallate, isoparaffinic Hydrocarbon solvent, isoparafinic (64742-48-9)	25.6 ppm	N
"	Soft scrub w/bleach	2 lb 4 oz (2)	1 = UO 1 = U		0	
"	Virex 256 one step Germicidal cleaner and deodorant	1/2 gal	U	See MSDS	0	
"	General Purpose Cleaner (Johnson)	1 Qt 1/3 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

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

Material Safety Data

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

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

		FLAMMABLE LIMITS	
FLASH POINT (TEST METHOD)	Tag Closed Cup: None!	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

BETCO

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 1001 Brown Avenue Toledo, Ohio 43607 (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.

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.

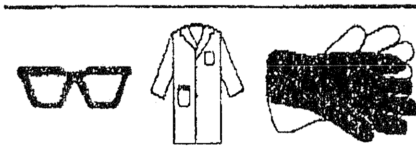
Section 6. Accidental Release Measures

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** TWA: 400 (ppm) TWA: 400 (ppm) from OSHA (PEL) STEL: 500 (ppm) 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.]
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

Odor	Pleasant.
Taste	Not available.
Color	White.

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.

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

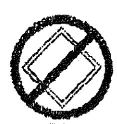
Ecotoxicity	Not available.
BOD5 and COD	Will not occur
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	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.

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

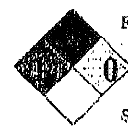
Other Classifications

HCS (U.S.A.)	HCS Class: Irritating substance.
USA Regulatory Lists	No components listed on California Prop 65 SARA 311/312: Isopropyl Alcohol; Bacteria Dispersion 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.

Continued on Next Page

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 inmediatamente.
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 normalmente 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.

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

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 and Son, Limited
Phone: (519) 758-6611
1 Webster Street
Brantford, Ontario N3T 5R1

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: [illegible] mg/m3 (inhalation-rat) 1 hr.
Sodium Silicate (CAS# 1344-09-8)..............	10-15	NOT ESTABLISHED LD50: 1,150 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.............. Corrosive and may cause permanent damage to mouth, throat and stomach.
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. 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....... Not applicable.
AUTOIGNITION........... Not applicable.
TEMPERATURE
EXTINGUISHING MEDIA.... Foam. CO2. Dry chemical. Water fog.
SPECIAL FIREFIGHTING... Normal fire fighting procedure may be used. Cool and use caution
PROCEDURES   when approaching or handling fire-exposed containers.
UNUSUAL FIRE AND....... Corrosive Material (See Sections 8 and 10)
EXPLOSION HAZARDS

SECTION 6 - PREVENTIVE RELEASE MEASURES

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

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONARY.......... DANGER: CORROSIVE: CONCENTRATE CAUSES EYE AND SKIN BURNS. Avoid
INFORMATION   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..... Wash thoroughly after handling. Thoroughly clean footwear and
STORAGE CONDITIONS   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....... Protective footwear.
MEASURES

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 5.2 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.

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 recommended 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.

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			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	XX	None

INCOMPATABILITY (*Materials to avoid*)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	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	LOCAL EXHAUST	SPECIAL
NONE	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 :
226-2666...(607) 324-6504

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-1003

II. Hazardous Ingredients / Identity Info.

Hazardous Components (Specific ID)	OSHA PEL	ACGIH TLV	Other Limits	%(opt)
Caustic Soda (CAS No. 1310-73-2)				
Sodium meta Silicate (CAS No. 6834-92-0)	2mg/M3	irritant-ca		<2.0
Ethylene glycol butyl ether (CAS No. 111-76-2)	2mg/M3	irritant-ca		<1.0
	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	UEL
NA	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/Hygiene and Maintenance 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

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Location ID: B776

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

Infiltration into air ducts See above

Confidential Location ID: B776

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 Conf. 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

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Location ID: B776

Boilerfurnace 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 ☒ First floor Y / N If yes, where vented? OUTDOORS

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) No

Yes, use dry-cleaning infrequently (monthly or less) Unknown

Yes, work at a dry-cleaning service

80 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.

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Location ID: ~~B7~~ B776

14. PRODUCT INVENTORY FORM

Page 1 of ___

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	86ppb Floor Drain	#6
"					0ppb off Glass Cleaners	
"	Enviro-Solutions Deod. Lotion Soap #50	1Gal	"		~7000	
"	Enviro-Solutions Lime Remover & Descaler #57	1Gal	"		31ppb	
"	Swish - Winter Floor Cleaner	4-½Gals	"		~9000	
Copy Room Rm 108	Sanford Expo White board Cleaner	1Gal	in use	2-Butox Ethanol/Acetate Isopropyl Alcohol	535	#7

* 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

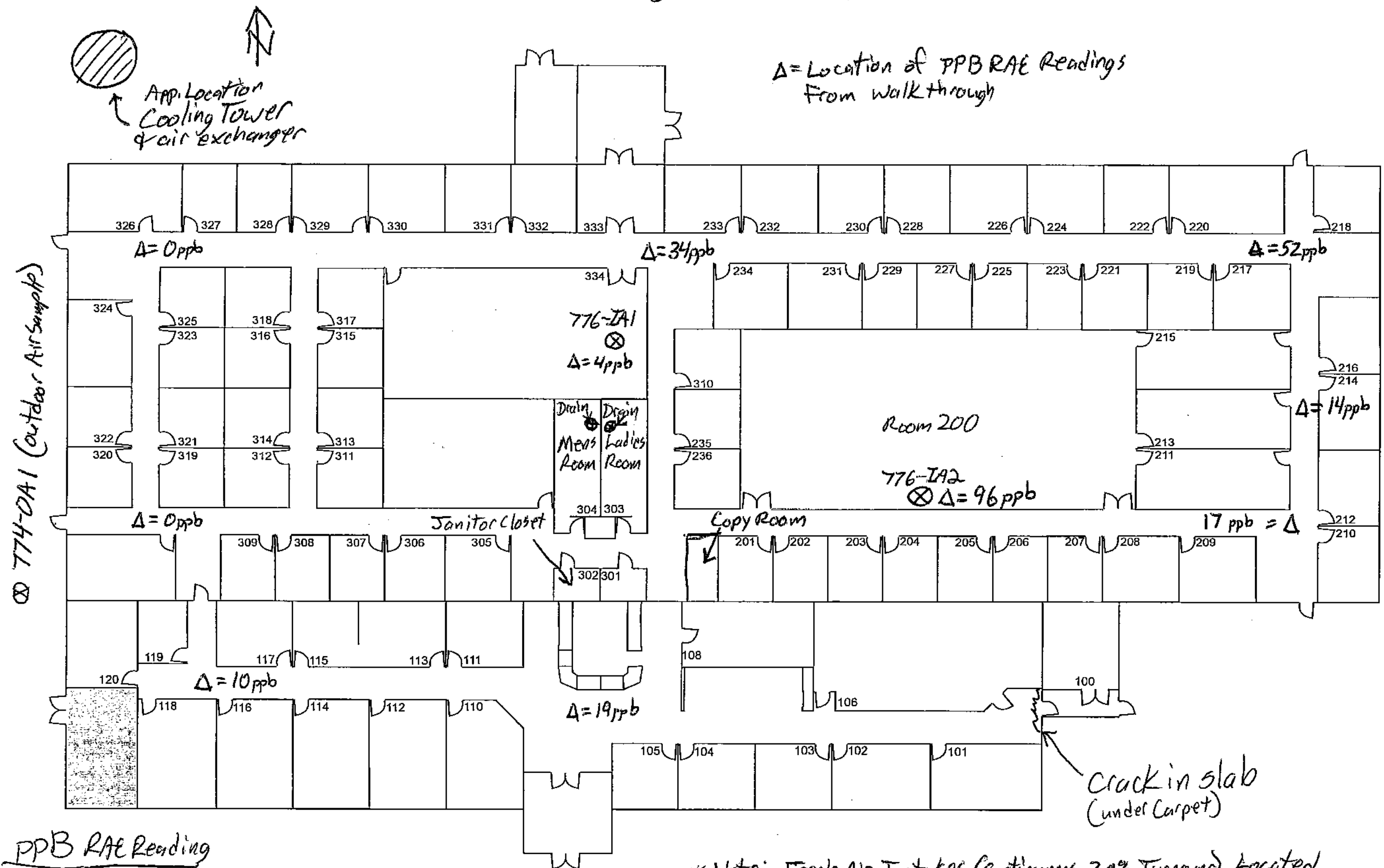
12/20/2006

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.

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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 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, 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

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Location ID: B785

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		
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	Along Front & back door (grate covered trenches)			
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)

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

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Location ID: B785

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?______

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Location ID: B785

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") NA 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 response) NA

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

Confidential Location ID: B785

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:

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: ______

Confidential Location ID: B785

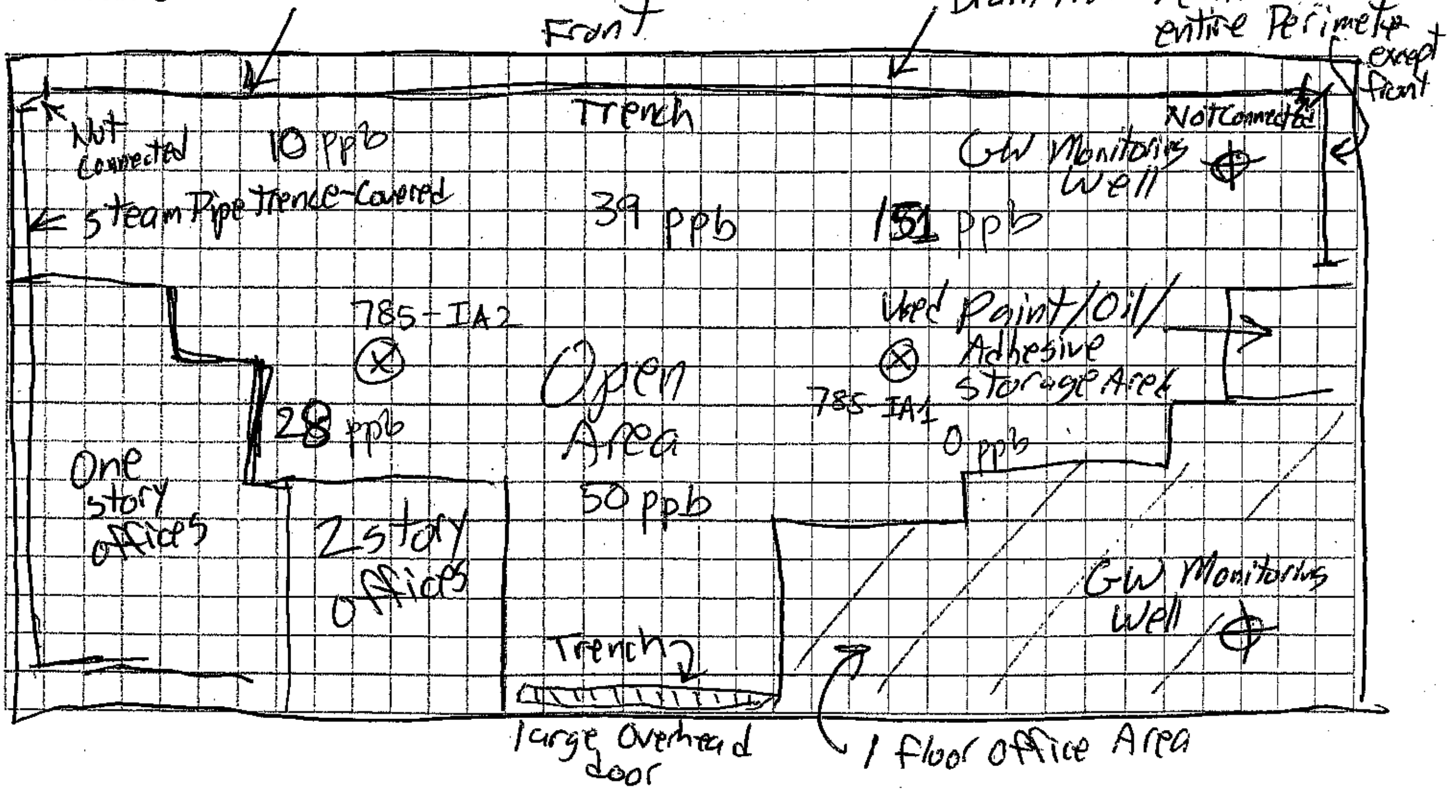
12. FLOOR PLANS

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

grate covered Drain Trench w/ *Pipe chase extends around entire Perimeter except front



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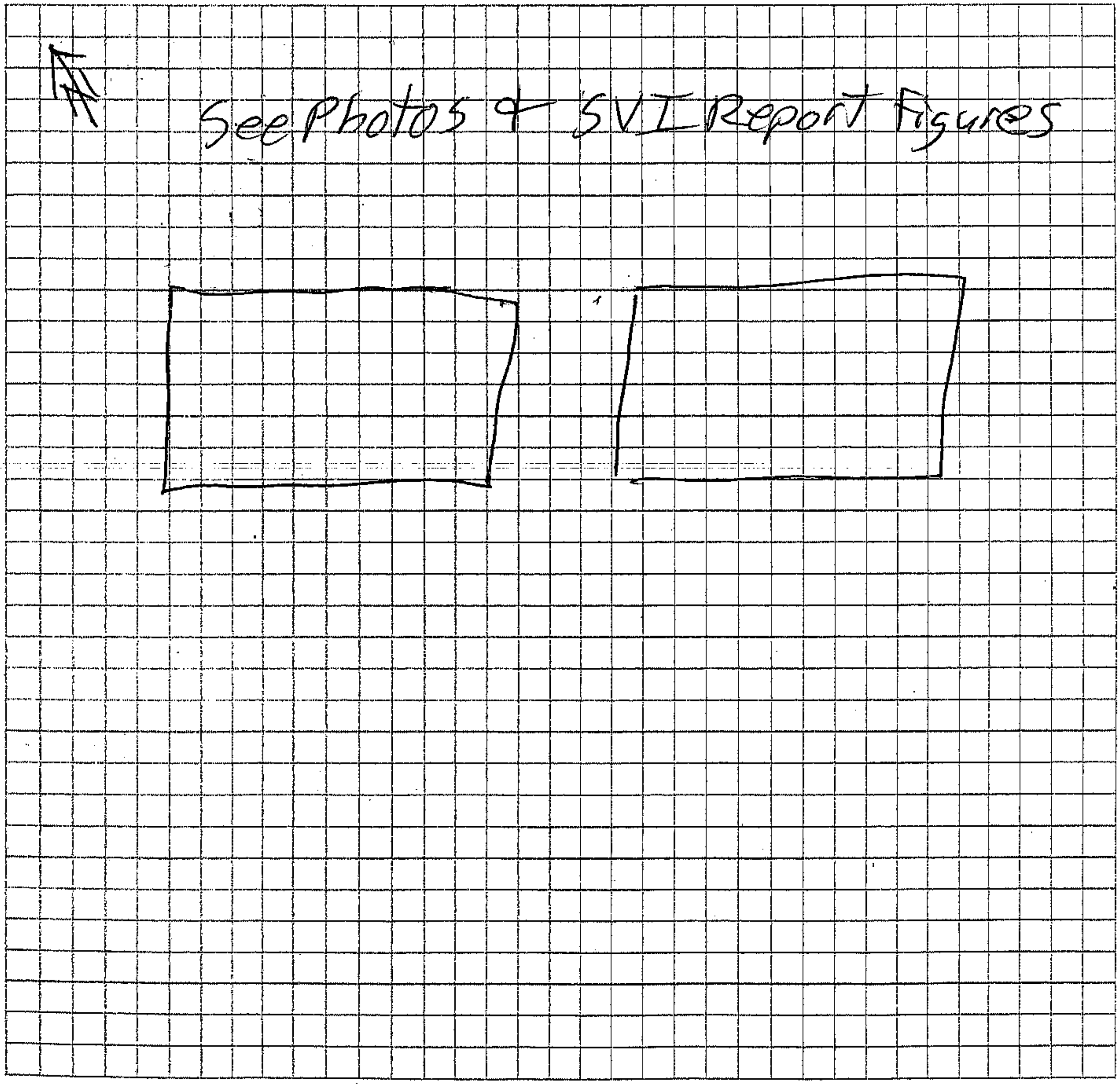
Confidential Location ID: B785

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

Page 1 of 1

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	Unkown - 1/3 Full liquid	87ppb	N
"	Empty 55-gallon Plastic Drum - Ashford formula	55gal	U	Curecrete - Concrete Treatment	0ppb	Y
"	Motor Oil & Filter	~ 1/2 Qt	U	Used motor oil Filter and Container (oily) for changing oil	77ppb	Y
"	Enamel Paint	1 Gal	U		0	Y
"	Truco Eterna-Seal Seam Sealer 7141	5 Gal	U	Petroleum Distillates	1027ppb	Y
"	Firestone - Ultraply Bonding Adhesive	5 Gal	U	Acetone, toluene, Xylene & Techtile spirits	27,9 ppM	Y
"	Air Products Surfynol 440 Surfactant	5 Gal	U	Ethoxylated Tetramethyldecynediol (9014-85-1)	184	Y
"	Hyd. oil	55gal	U	Hydraulic oil - open	2489ppb	Y
"	Motor oil - Used	55gal	U	Motor Oil	2799ppb	Y
"	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

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 GAFB

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 N/A

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 Haugar

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 airtight, can see light through
Gaps in Walls/Haugar doors.

Infiltration into air ducts
NA, No heating/cooling.

Confidential

Location ID: B786

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 #1+2 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 DiskA #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

<u>Level</u>	<u>General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage)</u>
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?** NA 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~~ RAM
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 response) N/A

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: ______

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Location ID: B786

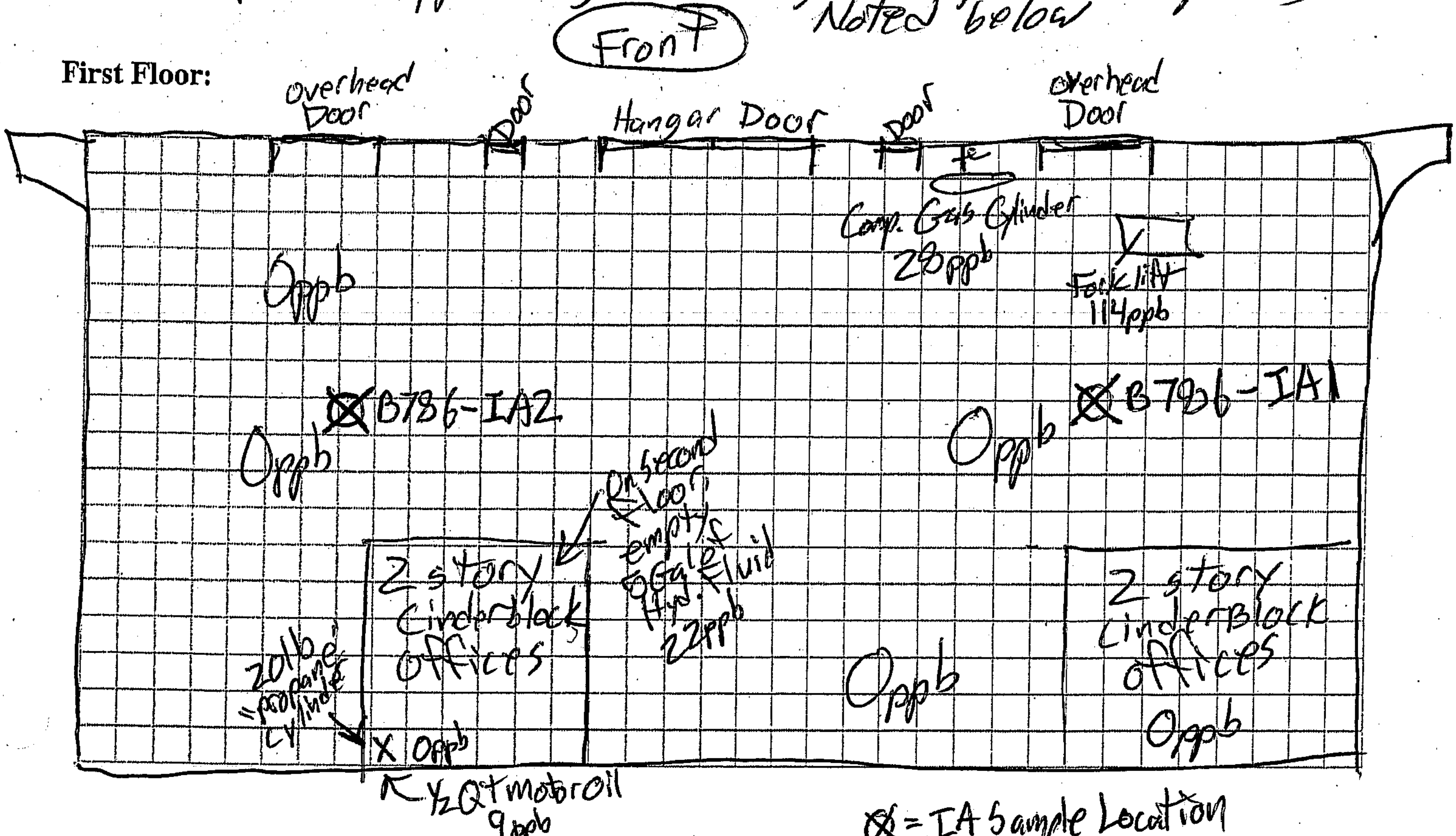
12. FLOOR PLANS

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: 0ppb during walkthrough scan, with exceptions noted below

First Floor:



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Indoor Air Quality Questionnaire Ene Rev 3.Doc-6/16/2006

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: B786

14. PRODUCT INVENTORY FORM

Page 1 of 1

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	MotoR oid	1 Qt	½ Full	10W-40 NAPA Motor oil	9	–
upstairs in office	Hydralic Fluid	5 gal	empty	Hydraulic Fluid	22	–

* 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: ~~B8~~ 9em BLDG 817 Former Griffiss AFB Rome, NY

Location/Sample ID: B817 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~~ office Phone: 315-330-3371 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/ppbRAE

*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:

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

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: NA

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

Confidential

Location ID: B317

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? ______

Confidential Location ID: B817

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

Confidential Location ID: B817

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

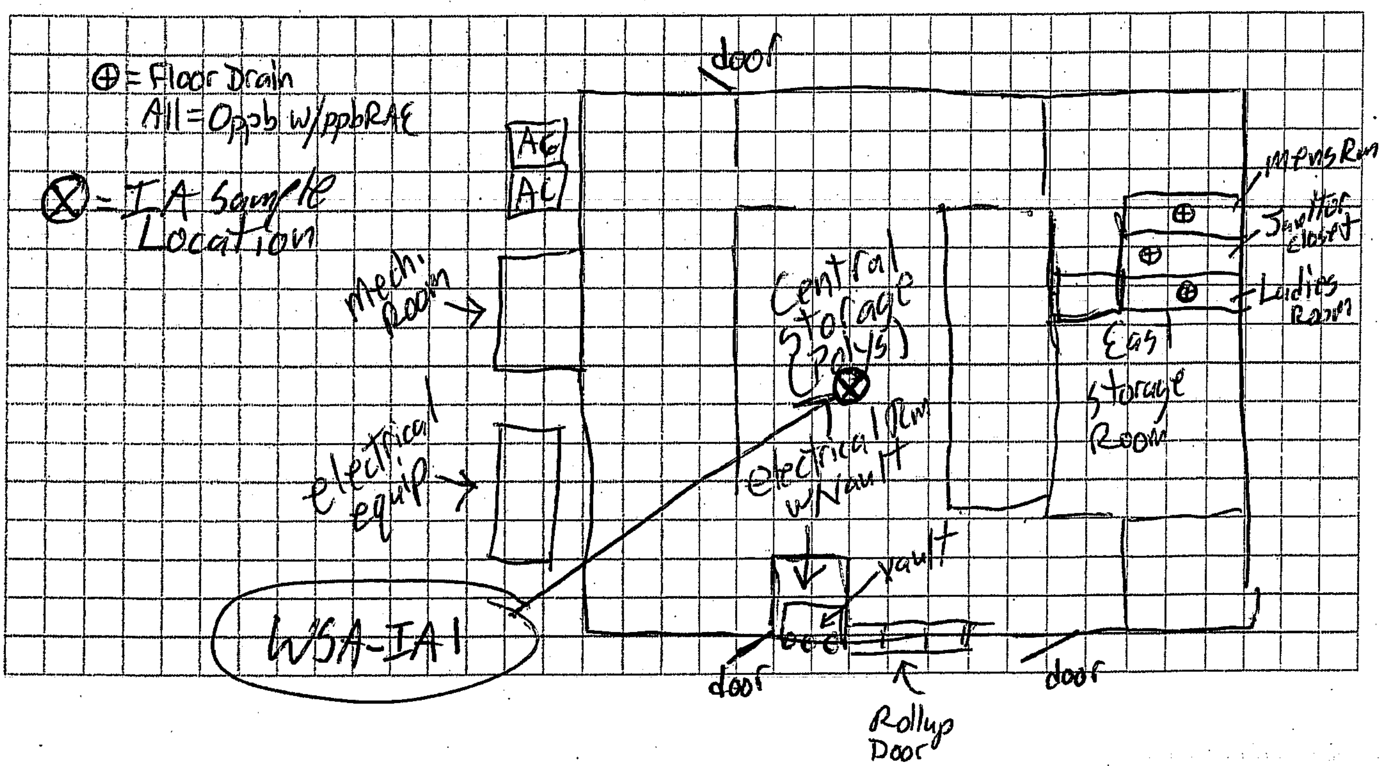
3. Other Comments: ______

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: N/A

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

See photos

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	0ppb	Y
	Calibration Solutions					
East Side Storage Rm	Fire Extinguishes	Various	UO (old)	19 of Various Sizes	0ppb	N
	~~Water Quality Test~~	Various	U	LaMotte Combination	0ppb	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)	0ppb	
	Bedrock Core Samples	—	—	—	0ppb	Y

* 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 Carr, Jim Mays

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.		2722 ~~6156~~ 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)		0ppm	0ppm	0ppm	0ppm	0ppm	0ppm
Final He conc. in pail (ppm)		40.7%	45.2%	43.9%	42.6%	43.4%	40.1%
OVM (ppm)		0.3ppm	0.2ppm	0.1ppm	0.1ppm	1.2ppm	0.1ppm
Purge Vol. (L)		1L	1L	1L	1L	1L	1L
Duration (hours)		1hr	1hr	1hr	1hr	1hr	1hr
Start	Date	10/18/06	10/18/05	10/18/05	10/18/05	10/18/05	10/18/06
	Time	1031	~~1129~~ 1252 BC	1240	1605	1654	1730
	Pressure	-30	-29	-29.5	-30	-29.5	-29.5
End	Date	10/18/05	10/18/05	10/18/05	10/18/05	10/18/05	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)

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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 Corri, 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~~ BC 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
	Time	0952	1140	1140	1506	1506	1539
	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
	Time	No Sample	No Sample	No Sample	1619	1619	1636
	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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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 Cersi, 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)		40.3	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)		—	—	—	—	—	—	—
PID reading ~~Final He conc. In pail (ppm)~~		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 mls.	60 mls.	60 mls.	60 mls.	60 mls.	60 mls.	60 mls.
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

		OBGWV-TB1	B786-SSV1	B786-SSV1/S	B786-SSV2	B786-SSV2/D	B783-SSV1	B783-SSV2
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)		—	—	—	—	—	—	—
PID reading ~~Final He conc. In pail (ppm)~~		—	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	~~[illegible]~~ 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:** 10/24/06

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)		—	—	—	—	—	—	—
PID reading ~~Final He conc. In pail (ppm)~~		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 110-005047

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.		2416	3850					
Start He conc. In pail (ppm)		—	—					
PID reading ~~Final He conc. In pail (ppm)~~		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 Mayers, Jim Mays

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

Helium Detector Used:

		WSA-IA1	WSA-OA1	OBGWV-TB	786-IA1	786-IA2	786-IA2/D	786-OA1
Sample ID		WSA-IA1	WSA-OA1	OBGWV-TB	786-IA1	786-IA2	786-IA2/D	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: PPB 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

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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

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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? *Field Duplicate - 1/20 samples.* *Trip Blank - 1/20 samples.* *Equipment Blank - 1/ set of samples per day*.	Yes – Trip blank and field duplicate collected and included in this SDG.
Laboratory QC frequency correct? *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? 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? *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? Were appropriate samples re-analyzed? *All samples should be re-analyzed for VOCs*.	NA
MS/MSD within QC criteria? *If out and LCS is compliant, then J flag positive data in original sample due to matrix.*	NA
LCS within QC criteria? *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? *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? *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". 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	

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? *Field Duplicate - 1/20 samples.* *Trip Blank - 1/20 samples.* *Equipment Blank - 1/ set of samples per day*.	Yes – Trip blank and field duplicates collected and included in this SDG.
Laboratory QC frequency correct? *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? 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? *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? Were appropriate samples re-analyzed? *All samples should be re-analyzed for VOCs*.	NA
MS/MSD within QC criteria? *If out and LCS is compliant, then J flag positive data in original sample due to matrix.*	NA
LCS within QC criteria? *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? *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? *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". 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. 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

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	

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

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

Data Usability Summary Report	Project: Griffiss AFB
Laboratory: STL-Burlington	LAB SDG ID: NY117175
Date Completed: Nov 22, 2006	Data Validation Chemist: B. Krajewski

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? *Field Duplicate - 1/20 samples.* *Trip Blank - 1/20 samples.* *Equipment Blank - 1/ set of samples per day*.	Yes – Trip blank and field duplicates collected and included in this SDG.
Laboratory QC frequency correct? *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? 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

Compliance Review	
Description	**Notes and Qualifiers**
Were any analytes flagged for blank contamination? *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? Were appropriate samples re-analyzed? *All samples should be re-analyzed for VOCs*.	NA
MS/MSD within QC criteria? *If out and LCS is compliant, then J flag positive data in original sample due to matrix.*	NA
LCS within QC criteria? *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? *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? *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	

Data Usability Summary Report	Project: Griffiss AFB
Laboratory: STL-Burlington	LAB SDG ID: NY18083
Date Completed: January 15, 2007	Data Validation Chemist: B. Krajewski

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

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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:
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153 Brooks Road
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Contract F41624-03-D-8601-0045

Revision 0.1

October 2007

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LIST OF EXHIBITS

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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
$\alpha_{\text{soil vapor}}$	Soil Vapor-to-Indoor Attenuation Factor
$\alpha_{\text{sub-slab vapor}}$	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 1×10^{-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 $\alpha_{\text{soil vapor}}$ 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 **1×10^{-4} Target Risk (1×10^{-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**
Exposure Duration (ED)=	**25**	**years**
Exposure Frequency (EF)=	**250**	**days/year**
Inhalation Rate (IR)=	**10**	**m^3/day**
Daily Exposure Duration=	**12**	**hours**
Body Weight (BW)=	**70**	**kg**

Target Risk (TR)=	**1.0E-05**
Target Risk for TCE (TR_{tce})=	**1.0E-05**
Target Hazard Quotient (THQ)=	**1**
Cancer Exposure Adjustment Factor[1] =	**0.122**
Non-Cancer Exposure Adjustment Factor[2] =	**0.342**
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 **1×10^{-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 **(1×10^{-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 **(1×10^{-5} Target Risk**) or non-cancer risk **(Target Hazard Quotient of 1)**, adjusted a Soil vapor-to-Indoor Air Attenuation Factor of 1%.