DRAFT VAPOR INTRUSION INVESTIGATION REPORT NEW CASSEL INDUSTRIAL AREA SITE # 130043

WORK ASSIGNMENT NO. D004434-31

Prepared for:

New York State Department of Environmental Conservation Albany, New York

Prepared by:

MACTEC Engineering and Consulting, P.C. Portland, Maine

MACTEC: 3612092127

AUGUST 2010

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GLOSSARY OF ACRONYMS AND ABBREVIATIONS

AS air sparge

bgs below ground surface

CDM Camp Dresser and McKee

DCA dichloroethane
DCE dichloroethene

DUSR Data Usability Summary Report

FAP Field Activities Plan

IRM interim remedial measure

MACTEC Engineering and Consulting, P.C.

MTBE Methyl Tertiary Butyl Ether

NCIA New Cassel Industrial Area

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

OU operable unit

PCE tetrachloroethene

PID photoionization detector

QAPP Quality Assurance Program Plan

Report Vapor Intrusion Investigation Report

ROD Record of Decision

GLOSSARY OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

RI Remedial Investigation

Site New Cassel Industrial Area site

SVE soil vapor extraction

TCA trichloroethane
TCE trichloroethene

μg/m³ microgram(s) per cubic meter

USEPA United States Environmental Protection Agency

VI vapor intrusion

VOC volatile organic compound

WA work assignment

1.0 INTRODUCTION

MACTEC Engineering and Consulting, P.C. (MACTEC) was tasked by the New York State Department of Environmental Conservation (NYSDEC) to conduct a Vapor Intrusion (VI) Investigation for the New Cassel Industrial Area (NCIA) site (Site) (Site # 130043) in Nassau County, New York (Figure 1.1). The VI Investigation was conducted in accordance with Work Assignment (WA) No. D004434-31 (NYSDEC, 2009) and the Field Activities Plan (FAP) (MACTEC, 2010) to assess the potential for contamination at seven spill sites within the NCIA to result in exposure to volatile organic compounds (VOCs) from soil vapor migration.

1.1 PROJECT BACKGROUND

WA D004434-31 included seven discrete properties within the NCIA:

- IMC Magnetics, 570 Main Street, New Cassel, NYSDEC Site No. 130043A;
- Atlas Graphics, 567 Main Street, New Cassel, NYSDEC Site No. 130043B;
- Tishcon Corp. (125 State Street), New Cassel, NYSDEC Site No. 130043C;
- Former Tishcon Corp., 68 Kinkel Street, Westbury, NYSDEC Site No. 130043F;
- Former Laka Industries, Inc., 62 Kinkel Street, Westbury, NYSDEC Site No. 130043K;
- EZ-EM, Inc., 750 Summa Avenue, North Hempstead, NYSDEC Site No. 130043N; and
- Tishcon Corp. (New York Ave), 29 New York Avenue, North Hempstead, NYSDEC Site No. 130043V.

Access was not attained after repeated attempts at the Tishcon Corp. site located at 125 State Street (NYSDEC Site No. 130043C); therefore VI sampling was not conducted.

1.2 PURPOSE OF INVESTIGATION AND REPORT

Past activities associated with each of the sites within the NCIA have contributed to groundwater contamination. A soil vapor study around the perimeter of these properties in 2008 identified the potential for vapor migration into the buildings (Camp Dresser and McKee [CDM], 2008). This VI Investigation inside Site buildings was conducted to assess the potential for vapor migration.

The VI field work was performed in accordance with the FAP (MACTEC, 2010), Health and Safety Plan (MACTEC, 2005), and Quality Assurance Program Plan (QAPP) (MACTEC, 2007).

1.3 REPORT ORGANIZATION

This Vapor Intrusion Investigation Report (Report) was prepared to summarize the field activities and corresponding soil vapor, indoor air, ambient air, and soil sampling results. A summary of field sampling activities completed in February and May 2010 is provided in Section 2. Findings from field sampling activities are presented in Section 3. Conclusions from the field sampling activities are presented in Section 4.

The following are provided as appendices:

- · Appendix A: Field Data Records
- Appendix B: Structure Inspection/Inventory and Questionnaire
- Appendix C: Photographic Logs
- · Appendix D: Direct Push Soil Boring Logs
- · Appendix E: Data Usability Summary Reports (DUSRs) and Analytical Data

2.0 FIELD ACTIVITIES

Field activities summarized in this Report include one round of VI sampling during the 2010 heating season. VI sampling activities were performed in February 2010 to evaluate the potential for vapor migration at six properties within the NCIA. A direct push soil sampling program was also performed at the Tishcon Corp. New York Avenue Site (NYSDEC Site No. 130043V) to evaluate the presence/absence of a potential source area(s) in shallow soil adjacent to the building.

A summary of the property addresses and their corresponding structure identification number is provided in Table 2.1. Locations of the seven sites are shown on Figure 2.1.

2.1 VI SAMPLING – FEBRUARY 2010

VI sampling was conducted during the 2010 heating season at six structures in the NCIA. VI samples were collected over a 24-hour duration from each of the six structures. A seventh site (NYSDEC Site No. 130043C) was not sampled due to site access issues. Each structure included VI samples from three (3) sub-slab locations and two (2) indoor air locations for VOC analysis. Per New York State Department of Health (NYSDOH) guidance. When possible, an outdoor ambient air sample was collected in conjunction with the indoor air sample.

A total of 18 sub-slab vapor samples, 12 indoor air samples, as well as three exterior ambient air samples and one duplicate sample were collected. VI samples were analyzed for VOCs using United States Environmental Protection Agency (USEPA) Method TO-15 (soil vapor/air) by Centek Laboratory from Syracuse, New York, a NYSDEC Environmental Laboratory Approval Program certified laboratory. Field data records were completed during the investigation and are provided in Appendix A.

2.1.1 Structure Inspection/Inventory and Questionnaire

Prior to sample collection, MACTEC completed the NYSDOH "Indoor Air Quality Questionnaire and Building Inventory" form for each structure, screened ambient indoor air for total VOCs using a parts

per billion miniRAE, and selected sample locations. Copies of the completed questionnaires are provided in Appendix B.

2.1.2 Sub-Slab Vapor Sampling

Sub-slab vapor samples were collected from below the building's concrete slab in 1-liter SUMMA®-type canisters regulated with a 24-hour flow valve. The procedure detailed in the FAP (MACTEC, 2010) was followed for all sub-slab vapor point installations.

A digital photograph was taken of the set-up and surrounding area; a photographic log for the six structures that were sampled are provided in Appendix C.

Approximately 24 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted on the field data record (see Appendix A). Upon completion of the sampling, the tubing and stopper were removed from the building floor and the holes were filled with a fast drying concrete.

2.1.3 Air Sampling

Indoor air samples were collected in 1-liter SUMMA®-type canisters in the vicinity of the sub-slab vapor sample collection points. MACTEC collected the indoor air sample away from any sumps. Indoor air samples were collected from approximately four to six feet above the floor level. Indoor air samples were set up with 24-hour flow valves. Approximately 24 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted on the field data record (Appendix A).

Ambient air samples were collected in 1-liter SUMMA®-type canisters from the vicinity of three structures being sampled for indoor air and sub-slab vapor VOC contamination. Samples were collected from approximately three to six feet above ground surface. Ambient air samples were set up with 24-hour flow valves. Approximately 24 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted on the field data record (Appendix A).

Field quality control samples included duplicate sample collection. One field duplicate sample was collected at a sub-slab vapor point using an in-line tee fitting to split the sub-slab vapor sample between two canisters.

2.2 DIRECT PUSH SOIL SAMPLING – MAY 2010

Results obtained during the 2008 soil gas sampling program at the Tishcon Corp. New York Ave. Site (NYSDEC Site No. 130043V) (CDM, 2008) suggested a potential source area in soil adjacent to the southern portion of the Site. To fill this data gap, direct push soil sampling was conducted at the site: five (5) soil borings were advanced (DP-1 through DP-5). Soil borings were advanced using direct push technology as described in the Section 4.5.1.1 of the QAPP (MACTEC, 2007). Soil samples were collected from a five-foot long, 2 inch diameter core sampler with an acrylic liner. Soil samples were collected continuously from the ground surface to 25 feet below ground surface (bgs), or until refusal. Photoionization detector (PID) headspace readings was used to screen soil samples for the presence of total VOCs as each soil sample was removed from the sample collection tube. Samples were described using the Unified Soil Classification System. The sample description and classification, VOC headspace reading, and boring observations were recorded on the field data record as described in Subsection 4.5.2 of the QAPP (Appendix D). Refusal was encountered at location DP-3 at approximately 1 foot bgs; therefore soils samples were not collected from this location.

Based on the PID screening readings, the sample exhibiting the highest screening measurement from each of the soil borings (a total of four samples) was submitted to Chemtech Laboratories of Mountainside, New Jersey for VOCs by USEPA Method 8260B. Appendix D provides the direct push soil boring logs and relevant site photos.

3.0 VAPOR INTRUSION INVESTIGATION FINDINGS

Laboratory results were reviewed and evaluated in accordance with the "Guidance for the Development of Data Usability Reports" (NYSDEC, 2002). Validated results and the Data Usability Summary Report are included as Appendix E. Tables 3.1 through 3.8 provide a summary of compounds detected and applicable New York State standards and/or guidance criteria.

The field data records and Structure Inspection/Inventory and Questionnaire for the NCIA sites are provided in Appendices A and B.

Ambient air samples were not collected at each structure; rather three (3) samples were collected from the NCIA study area to demonstrate overall ambient air conditions at the time of sampling (see Table 3.7).

3.1 **IMC MAGNETICS (SITE 130043A) FINDINGS**

The IMC Magnetics site is located at 570 Main St., New Cassel, New York in the western part of the NCIA. The site was listed as a Class 2 site in 1995. From October 1997 to 2004, IMC Magnetics Inc. operated a soil vapor extraction (SVE) system to remediate on-site soil contamination at the northwest corner of the Site. The Record of Decision (ROD) for operable unit (OU)-1, On-Site Soil Contamination, incorporating the SVE system, was issued in January of 1998. The ROD for OU-2 On-Site Groundwater was issued in March 2000. The remedy selected for groundwater remediation at this site was in-situ oxidation using hydrogen peroxide injection; treatment began in December 2001. It is unknown if groundwater treatment is currently taking place. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed high concentrations of solvent VOCs in the soil vapor in excess of NYDOH guidelines, and concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) in excess of New York State standards for Class GA groundwater. The investigation suggested a potential source area in the northwest corner of the site and concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008)

VOCs detected in sub-slab vapor, indoor and ambient air samples for the IMC Magnetics site (Structure A) during the 2010 VI Investigation are shown in Table 3.1. Sample locations are shown in Figure 3.1.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples at locations A-SS-01, A-SS-02 and A-SS-03 are listed below:

- Tetrachloroethene (PCE) concentrations ranged from 4,600 micrograms per cubic meter $(\mu g/m^3)$ to $400,000 \mu g/m^3$;
- cis-1,2-Dichloroethene (DCE) concentrations ranged from non-detect to 2,800 EJ μg/m³;
- 1,1,1- Trichloroethane (TCA) concentrations ranged from 2.8 μg/m³ to 240 μg/m³;
- Trichloroethene (TCE) concentrations ranged from 19 μg/m³ to 4,400 J μg/m³, and,
- Carbon tetrachloride, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples at locations A-IA-01 and A-IA-02 are listed below:

- PCE concentrations ranged from 74 J μg/m³ to 220 μg/m³;
- cis-1,2-DCE concentrations ranged from non-detect to 1.6 µg/m³;
- TCE concentrations ranged from 1.6 J μ g/m³ to 5.6 J μ g/m³,
- Carbon tetrachloride concentrations ranged from $0.45 \text{ J} \,\mu\text{g/m}^3$ to $0.51 \,\text{J} \,\mu\text{g/m}^3$ and,
- 1,1,1-TCA, vinyl chloride and 1,1-DCE were not detected above the reporting limit.

3.2 ATLAS GRAPHICS (SITE 130043B) FINDINGS

The Atlas Graphics site (Structure B) is located at 567 Main Street, Westbury, New York in the western part of the NCIA. The building was built in 1950, and used as a warehouse for construction vehicles until 1997. In 1997, the property was purchased by Atlas Graphics Inc., which currently operates a photo-engraving manufacturing operation. This operation uses a reported 312 gallons per year of TCE. At the time of its purchase, the building was connected to a cesspool for its sanitary waste disposal. In 1977, there was a documented discharge of approximately 50 gallons of TCE to the cesspool. Analytical results detected elevated concentrations of TCE in the soil and groundwater above New York State standards. The ROD for this site was issued in February 2000, and selected an air sparging (AS) and SVE system as the remedy to address the on-site contaminated soil and

groundwater. The AS/SVE system was constructed in October 2000 and was operated through November 2003. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor in excess of NYSDOH guidelines and concentrations of PCE, TCE, and 1, 1, 1-TCA in excess of New York State standards for Class GA groundwater. The investigation suggested a potential source area at the site and concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the Atlas Graphics site (Structure B) during the 2010 VI Investigation are shown in Table 3.2. Sample locations are shown in Figure 3.2.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples at locations B-SS-01, B-SS-02 and B-SS-03 are listed below:

- PCE concentrations ranged from 1,400 μg/m³ to 4,200 μg/m³;
- cis-1,2-DCE concentrations ranged from 8.5 μg/m³ to 26 μg/m³;
- 1.1.1-TCA concentrations ranged from 160 EJ µg/m³ to 240 µg/m³;
- TCE concentrations ranged from 4,100 μg/m³ to 31,000 μg/m³,
- 1,1-DCE concentrations ranged from non-detect to 2.5 µg/m³; and
- Carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples at locations B-IA-01 and B-IA-02 are listed below:

- PCE concentrations ranged from 1.6 J μg/m³ to 1.9 J μg/m³;
- TCE concentrations ranged from 27 $\mu g/m^3$ to 28 $\mu g/m^3$; and
- cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

3.3 TISHCON CORP (125 STATE STREET) (SITE 130043C) FINDINGS

The Tishcon Corp site (Structure C) located at 125 State Street, New Cassel, New York is within the central part of the NCIA. Tishcon produced dietary supplements and vitamin products in the form of

powders and tablets. The powders and tablets were produced in a dry blending process. From 1985 to 1993, the chemicals methylene chloride, 1,1,1-TCA, and methanol were used in the tablet coating process. Equipment used in the process was rinsed in the driveway where storm drains were located. Based on the presence of VOCs and metals in four storm drains at the site, the Nassau County Department of Health requested that contaminated sediment be removed from the storm drains and a distribution box on the property. The excavation and restoration of the contaminated source areas, including two storm drains and a distribution box was completed as an Interim Remedial Measure (IRM) in October 1997. The ROD for the site was issued in January 1998 and required the excavation and restoration of the remaining source area. Excavation and disposal of this material was completed in the spring of 1999. In March 2000, the site was reclassified as a Class 4 site indicating the site was properly closed and monitoring is required. It is uncertain whether a monitoring program is currently being implemented at the Site. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the perimeter of the facility was conducted by CDM in 2008. Results from the investigation detected concentrations of solvent VOCs in the soil vapor in excess of NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, and 1,1,1-TCA but concentrations did not exceed New York State standards for Class GA groundwater. It was concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion at the site (CDM, 2008).

MACTEC made repeated attempts to gain access and collect VI samples from this property; however, access was not obtained during the February 2010 sampling event and no indoor or subslab VI samples were collected.

3.4 FORMER TISHCON CORP., 68 KINKEL STREET (SITE 130043F) FINDINGS

The Former Tishcon Corporation site located at 68 Kinkel Street, Westbury, NY is located within the central part of the NCIA. The one quarter acre site is occupied by a single story, 2-bay garage. In 1982 and 1983, Tishcon utilized 1650 gallons of 1,1,1-TCA, 8000 gallons of methylene chloride, and 3000 gallons of shellac in its manufacturing process. A superfund investigation was completed in July 1996 and a ROD was issued in January 1997, requiring no action for this site. A soil vapor and groundwater investigation which consisted of five direct push borings drilled at the north, northeast, and northwest perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed elevated concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs

were detected in groundwater including concentrations of PCE, TCE, Methyl Tertiary Butyl Ether (MTBE) and cis-1,2-DCE in excess of New York State standards for Class GA groundwater. The investigation suggested a potential source area at the site and concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the Former Tishcon Corp site (Structure F) during the 2010 VI Investigation are shown in Table 3.3. Sample locations are shown in Figure 3.3.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples at locations F-SS-01, F-SS-02 and F-SS-03 are listed below:

- PCE concentrations ranged from 110 J μg/m³ to 290 μg/m³;
- 1,1,1-TCA concentrations ranged from 9.9 μg/m³ to 110 μg/m³; and
- TCE concentrations ranged from $0.6 \text{ J} \,\mu\text{g/m}^3$ to $4.2 \,\mu\text{g/m}^3$.
- Carbon tetrachloride, cis-1,2-DCE, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples at locations F-IA-01 and F-IA-02 are listed below:

- PCE concentrations ranged from 1.7 J μg/m³ to 1.9 J μg/m³;
- Carbon tetrachloride concentrations ranged from 0.45 J $\mu g/m^3$ to 0.51 J $\mu g/m^3$
- TCE concentrations ranged from 1.8 J μ g/m³ to 3.2 μ g/m³; and,
- cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

3.5 FORMER LAKA INDUSTRIES, INC. (SITE 130043K) FINDINGS

The Former LAKA Industries, Inc. site located at 62 Kinkel Street, Westbury, New York is within the central part of the NCIA. The former occupants, LAKA Tools and Stamping, and LAKA Industries used TCE as a degreaser. Soil samples collected from an abandoned drywell or cesspool contained TCE and cis-1,2-DCE. Groundwater samples collected at the same locations also contained TCE and cis-1,2-DCE. A plume of contaminated groundwater emanates from the site and has reportedly migrated approximately 700 feet down gradient from the Site. A Focused Remedial Investigation (RI) Report dated November 1998 and a Focused Feasibility Study dated May 1999 have been completed.

The Proposed Remedial Action Plan for OU-1 on-site soil and groundwater was completed in September 1999; the selected remedy was the excavation and off-site disposal of soil and monitoring of the on-site groundwater for at least two years. The ROD for OU-1 was issued in February 2000 and remedial action for OU-1 began in February 2002. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the northern perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, MTBE, 1,1-DCA and cis-1,2-DCE but no VOC contaminants were detected in excess of New York State standards for Class GA groundwater. The investigation concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the Former LAKA Industries, Inc site (Structure K) during the 2010 VI Investigation are shown in Table 3.4. Sample locations are shown in Figure 3.4.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples located at K-SS-01, K-SS-02 and K-SS-03 are listed below:

- PCE concentrations ranged from 280 μg/m³ to 1,500 μg/m³;
- Carbon tetrachloride concentrations ranged from non-detect to 0.7 J $\mu g/m^3$,
- cis-1,2-DCE concentrations ranged from 1.3 μ g/m³ to 120 μ g/m³;
- 1,1,1-TCA concentrations ranged from 36 μ g/m³ to 2,100 μ g/m³;
- TCE concentrations ranged from 490 J μ g/m³ to 10,000 μ g/m³, and
- 1,1-DCE and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples located at K-IA-01 and K-IA-02 are listed below:

- PCE concentrations ranged from 1.7 μ g/m³ to 5.4 μ g/m³;
- Carbon tetrachloride was detected at 0.51 J μg/m³;
- TCE concentrations ranged from $0.6 \mu g/m^3$ to $0.87 \mu g/m^3$; and
- cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA and vinyl chloride were not detected above the reporting limit.

3.6 EZ-EM, INC. (SITE 130043N) FINDINGS

The EZ-EM, Inc. site is located at 750 Summa Ave, North Hempstead, NY in the NCIA. Advanced Food Service Equipment Manufacturing, a stainless steel kitchen equipment supplier, occupied the site between 1968 and 1971. Micro Industries, a machine shop, occupied the site between 1971 and 1982. EZ-EM has been at the site since 1982. Records indicate that Advanced Food Service stored or used 1,1,1-TCA and other solvents while at the site. A vat used for degreasing operations was located in the southwest corner of the building. A floor drain near the vat was sealed in 1978. Sample(s) collected from a dry well between 1978 and 1985 contained 1,1,1-TCA. The degreasing vat was removed in 1985. Records also show that 1,1,1-TCA and waste oil were stored in drums in the rear of the facility. It is reported that previous investigations have found high concentrations of contaminants in groundwater near the former disposal area and lower levels of contaminants from upgradient locations. Contamination at the site has been considered to be localized. A soil vapor and groundwater investigation which consisted of five direct push borings drilled at the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, and 1,1,1-TCA with PCE and 1,1-TCA detected in excess of New York State standards for Class GA groundwater. The investigation concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the EZ-EM, Inc site (Structure N) during the 2010 VI Investigation are shown in Table 3.5. Sample locations are shown on Figure 3.5.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples located at N-SS-01, N-SS-02 and N-SS-03 are listed below:

- PCE concentrations ranged from 1,200 μg/m³ to 15,000 μg/m³;
- 1,1-DCE concentrations ranged from non-detect to 32 μg/m³;
- cis-1,2-DCE concentrations ranged from non-detect to $2 \mu g/m^3$;
- 1,1,1-TCA concentrations ranged from 390 μg/m³ to 53,000 μg/m³;
- TCE concentrations ranged from 80 $\mu g/m^3$ to 3,200 J $\mu g/m^3$, and
- Carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples located at N-IA-01 and N-IA-02 are listed below:

- PCE concentrations ranged from 1 μg/m³ to 1.6 μg/m³;
- Carbon tetrachloride concentrations ranged from 0.58 J μg/m³ to 0.7 J μg/m³;TCE concentrations ranged from non-detect to 0.33 μg/m³;
- 1,1,1-TCA concentrations were 1.2 μg/m³, and
- cis-1,2-DCE, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

3.7 THE TISHCON CORPORATION, NEW YORK AVE (SITE 130043V) FINDINGS

The Tishcon Corporation New York Avenue site is located within the NCIA at 29 New York Avenue, North Hempstead, NY midway between Old County Road and Main Street. The Site was developed in 1952 and was used to manufacture electronic equipment until the late 1970s. Tishcon occupied the Site from 1979 to 1991 (CDM, 2008). The Tishcon Corporation manufactures dietary supplements such as vitamins. Soft gelatin capsules are also manufactured by this company. As part of the process, a 1,1,1-TCA dip was used to remove mineral oil from the capsules. Approximately four drums of 1,1,1-TCA were used per week. Soil samples collected in 1998 from an open catch basin located in the parking lot contained 1,1,1-TCA, 1,1-DCA, and methylphenol. Past operations have contaminated at least one dry well with VOCs, and the on-site contamination is believed to affect underlying groundwater with a resulting plume that has migrated approximately 1000 feet down gradient. A RI was completed in January 2000. Based on the results, an IRM was carried out in 2000 to remove contaminated soil from the on-site dry well. The dry well was remediated in 2001. Confirmation samples showed concentrations of VOCs remaining in soils on site were below cleanup levels. A ROD was signed in 2002 recommending no further action and the site was delisted (NYSDEC, 2002). A soil vapor and groundwater investigation which consisted of five direct push borings drilled at the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, 1,1,1-TCA, cis-1,2-DCE, 1,1-DCA and 1,1-DCE detected in excess of New York State standards for Class GA groundwater. Concentrations of VOC contaminants in excess of the groundwater standards were observed in all five of the sample locations. The investigation concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor, indoor and ambient air samples for the Tishcon Corp., New York Avenue site (Structure V) during the 2010 VI Investigation are shown in Table 3.6. Indoor air and sub-slab soil vapor locations are shown in Figure 3.6.

Chlorinated VOCs with NYSDOH guidance criteria detected in the sub-slab samples located at V-SS-01, V-SS-02 and V-SS-03 are listed below:

- PCE concentrations ranged from 780 J μg/m³ to 1,500 μg/m³;
- 1,1-DCE concentrations ranged from $54 \mu g/m^3$ to $780 J \mu g/m^3$;
- cis-1,2-DCE concentrations ranged from non-detect to 49 μg/m³;
- Carbon tetrachloride concentrations ranged from non-detect to 0.9 J μg/m³,
- 1,1,1-TCA concentrations ranged from 290 J μg/m³ to 27,000 μg/m³;
- TCE concentrations ranged from 5.8 J μ g/m³ to 1,000 μ g/m³, and
- Vinyl chloride was not detected above the reporting limit.

Chlorinated VOCs with NYSDOH guidance criteria detected in the indoor air samples located at V-IA-01 and V-IA-02 are listed below:

- PCE concentrations ranged from $610 \mu g/m^3$ to $1,600 J \mu g/m^3$;
- TCE concentrations were 2.5 J μg/m³;
- Carbon tetrachloride concentrations were 0.51 J μg/m³;
- 1,1,1-TCA concentrations ranged from 4.2 J $\mu g/m^3$ to 4.7 J $\mu g/m^3$; and
- cis-1,2-DCE, 1,1-DCE and vinyl chloride concentrations were non-detect.

Table 3.8 provides direct push soil VOC results. Soil boring locations are shown on Figure 3.7. Direct push soil boring results indicate potential site contaminants (1,1,1-TCA and 1,1-DCA) detected in two of the four samples collected. Soil VOC results for the Tishcon Corp., New York Avenue site did not exceed the New York Codes, Rules and Regulations Title 6 Part 375 Soil Cleanup Objectives for unrestricted use for any of the compounds detected.

MACTEC Engineering and Consulting, P.C., Project No. 3612092127

4.0 CONCLUSIONS

MACTEC Engineering and Consulting, P.C. sampled six Structures in the NCIA as part of a VI Investigation in February 2010 for the NYSDEC. Based on the results of study, VOCs for which NYSDOH guidance criteria exist, were detected at the six Structures sampled. Results were compared to criteria as established in the New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (NYSDOH, 2006). In five of the six structures sampled during the 2010 VI Investigation, soil vapor and indoor air results for at least one compound exceeded the NYSDOH Guidance criteria for *Mitigate*, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, 2006). Results exceeding NYSDOH Guidance criteria for *Mitigate* are as follows:

Structure A: IMC Magnetics (NYSDEC Site No. 130043A).

• Cis-1,2-DCE, TCE and PCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure B: Atlas Graphics (NYSDEC Site No. 130043B).

• TCE and PCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure F: Former Tishcon Corp. (NYSDEC Site No. 130043F).

• 1,1,1-TCA and PCE exceeded NYSDOH Guidance criteria for *Monitor*.

Structure K: Former LAKA Industries, Inc. (NYSDEC Site No. 130043K).

• 1,1,1-TCA, PCE and TCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure N: Former EZ-EM, Inc. (NYSDEC Site No. 130043N).

• 1,1,1-TCA, PCE and TCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure V: Tishcon Corp, New York Ave. (NYSDEC Site No. 130043V).

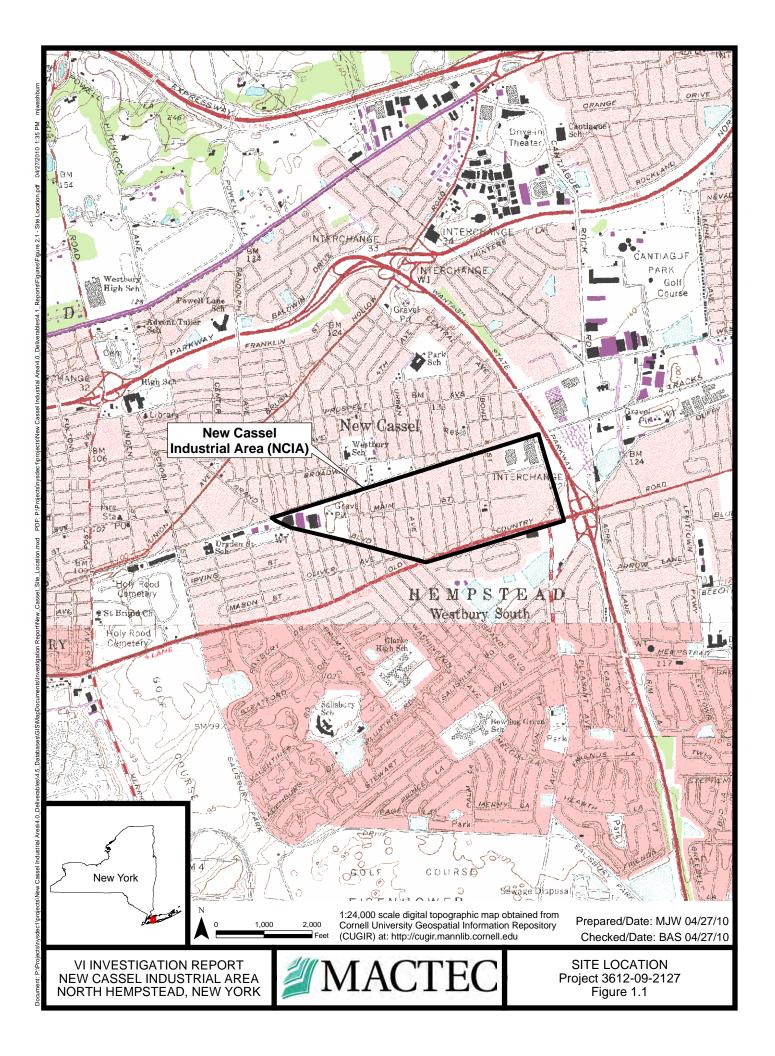
• 1,1,1-TCA, PCE and TCE exceeded NYSDOH Guidance criteria for *Mitigate*.

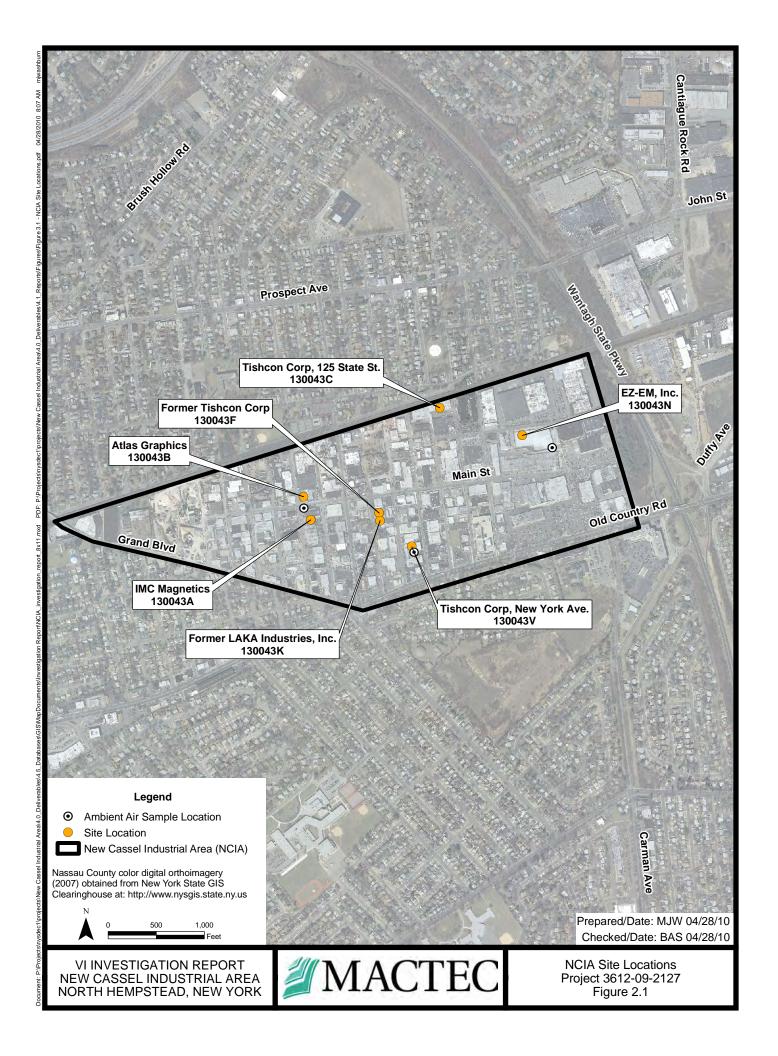
Results from the 2010 VI Investigation in the sub-slab soil vapor and indoor air samples suggest further evaluation is necessary.

5.0 REFERENCES

- Camp Dresser and McKee (CDM), 2008. Draft Site Characterization Report, Soil Vapor Intrusion Evaluation, New Cassel Industrial Area. April 15, 2008.
- MACTEC Engineering and Consulting, P.C. (MACTEC), 2005. Program Health and Safety Plan. Prepared for New York State Department of Environmental Conservation, Albany, New York. 2005.
- MACTEC Engineering and Consulting, P.C. (MACTEC), 2007. Program Quality Assurance Program Plan. Prepared for the New York State Department of Environmental Conservation, Albany, New York. October 2007.
- MACTEC Engineering and Consulting, P.C. (MACTEC), 2010. Vapor Intrusion Investigation Field Activities Plan, New Cassel Industrial Area, Site Number 130043. Prepared for the New York State Department of Environmental Conservation, Albany, New York. February 2010.
- New York State Department of Environmental Conservation (NYSDEC), 2002. Record of Decision Tishcon at 29 New York Avenue Site, Town of North Hempstead, Nassau County, New York, Site Number 1-30-043V. 2002.
- New York State Department of Environmental Conservation (NYSDEC), 2009. WA Issuance/Notice to Proceed D004434-31, New Cassel Industrial Area Vapor Intrusion Investigation. July 1, 2009.
- New York State Department of Health (NYSDOH), 2006. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006.

FIGURES





VI INVESTIGATION REPORT NEW CASSEL INDUSTRIAL AREA NORTH HEMPSTEAD, NEW YORK



VI Sample Locations Former Tishcon Corp (130043F) Project 3612-09-2127 Figure 3.3

VI INVESTIGATION REPORT NEW CASSEL INDUSTRIAL AREA NORTH HEMPSTEAD, NEW YORK



VI Sample Locations Former LAKA Industries, Inc. (130043K) Project_3612-09-2127 Figure 3.4

VI INVESTIGATION REPORT NEW CASSEL INDUSTRIAL AREA NORTH HEMPSTEAD, NEW YORK



VI Sample Locations Tishcon Corp, New York Ave. (130043V) Project 3612-09-2127 Figure 3.6



TABLES

Table 2.1 - Property Address Summary

Property Address	Site Name	NYSDEC Site Number	Structure ID Number
570 Main Street, New Cassel, NY	IMC Magnetics	Site No. 130043A	Structure A
567 Main Street, New Cassel, NY	Atlas Graphics	Site No. 130043B	Structure B
68 Kinkel Street, Westbury, NY	Former Tishcon Corp	Site No. 130043F	Structure F
62 Kinkel Street, Westbury, NY	Former Laka Industries, Inc	Site No. 130043K	Structure K
750 Summa Avenue, North Hempstead, NY	EZ-EM, Inc	Site No. 130043N	Structure N
29 New York Avenue, North Hempstead, NY	Tishcon Corp (New York Ave)	Site No. 130043V	Structure V

MACTEC Engineering and Consulting, P.C., Project No. 3612092127

Table 3.1 - IMC Magnetics (130043A) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number		IMC Magnetics (130043A)									
Site					Struct						
Location		SS-01	A-9	SS-02		S-03	A-I	A-01	A-I	A-02	
Sample Date		5/2010		5/2010		/2010		/2010	-	/2010	
Sample ID	_,	A-SS-01	_, _,	3A-SS-02	_, -,,	A-SS-03		A-IA-01		A-IA-02	
OC Code		FS		FS		FS		FS		FS	
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	240		2.8		95		0.83	UJ	0.83	UJ	
1,1,2-Trichloro-1,2,2-Trifluoroethane	11		2.3		470	EJ	1.2	U	1.8		
1,1,2-Trichloroethane	1.9	J	0.83	U	0.83	U	0.83	UJ	0.83	UJ	
1,1-Dichloroethane	19		0.62	U	0.62	U	0.62		0.62	U	
1,2,4-Trimethylbenzene	2.9	J	1.3	J	6.7	J	19	J	7	J	
1,3,5-Trimethylbenzene	0.9	J	0.75	UJ	2.3	J	4.6		7.3	J	
2-Butanone	13		2.9		4		0.9	U	5.2		
2-Hexanone	1.2	UJ	1.2	U	1.1	J	1.2	UJ	1.2	UJ	
2-Propanol	260		40		53		120		0.37	U	
4-Ethyltoluene	0.75	UJ	0.75	U	1.3		7.8	J	13	J	
4-Methyl-2-pentanone	4.9	J	1	J	1	J	3.4	J	3.2	J	
Acetone	170		28		46		39		49		
Benzene	17		0.62		4.3		8.4	J	11		
Bromodichloromethane	1	UJ	1	U	1	U	1	UJ	3.7	J	
Carbon disulfide	6.8		0.98		1.3		0.47	U	0.47	U	
Carbon tetrachloride	0.96	UJ	0.96	U	0.96	U	0.45	J	0.51	J	
Chloroform	210		29		10		1.1		88		
Chloromethane	0.31	U	0.31		0.31		0.99		1.5		
Cis-1,2-Dichloroethene	2800	EJ	0.6	U	0.6	U	1.6		0.6	U	
Cyclohexane	23		4.2		0.52	U	14		18		
Dichlorodifluoromethane	0.75		3.8		2.3		2.4		2.3		
Ethyl acetate			0.92	U	0.92	U	0.92		0.92	U	
Ethyl benzene	8.3		0.62		1.8		12	J	11	J	
Heptane		UJ	0.62	U	3.6		13		27		
Hexane	5.9		1		3.7		21		29		
Isooctane	2.5	J	0.71		0.47		16		11		
Methylene chloride	71		0.53		0.53	U	3.5		1.2		
Styrene	1.6	J	0.65	U	0.69		0.65		0.65		
Tetrachloroethene	400000		4600		42000		74	J	220	J	
Toluene	19		3		7.7		41		47		
trans-1,2-Dichloroethene	420		0.6	U	0.6	U	0.6		0.6		
Trichloroethene	4400	•	81		19		5.6	J	1.6	J	
Trichlorofluoromethane	0.86	U	1.4		2.1		1.1		1		
Xylene, m/p	32		1.8		3.4		16		35		
Xylene, o	8	J	0.62	J	1.5		13	J	10	J	

Notes:

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter ($\mu g/m^3$)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: SV = Soil Vapor; IA = Indoor Air

QC Code:

FS = Field Sample

Qualifiers:

- U = Not detected at a concentration greater than the reporting limit
- E = Detected at a concentration greater than the calibration range
- J = Estimated value

Bold = analyte detection

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Highlighted results within the guidance criteria for Mitigate, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for Monitor, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006)

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

Created by: BAS 04/27/2010 4.1 Table 3.1 xls Page 1 of 1 Checked by: LJB 04/28/2010

Table 3.2 - Atlas Graphics (130043B) - 2010 Vapor Intrusion Results

Sample Date Sample ID 2/1 Sample ID QC Code Parameter Name Result 1,1,1-Trichloroethane 18 1,1,2-Trichloroethane 0.8 1,1-Dichloroethane 0.8 1,1-Dichloroethane 0.1 1,1-Dichloroethane 0.7 1,2,4-Trimethylbenzene 1. 1,3,5-Trimethylbenzene 1. 1,4-Dioxane 1. 2-Butanone 6. 2-Hexanone 1. 2-Propanol 7 4-Ethyltoluene 0.5 4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloromethane 0.3 Cis-1,2-Dichloroethene 0.3 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6	DEJ DEJ	2/16. 130043 F Result 240 3.2 3.8 3.5 2.5 40 12 17 7.8 1.2 230 9.7 3.2 610 5	S-02 /2010 B-SS-02 7S Qualifier J J J UJ J	Structure Struct	U J J U J UJ EJ J	B-I. 2/16 130043 Result 0.83 1.2 0.83 0.62 0.66 0.8 0.75 1.2 38 0.5	UJ UJ U U U U	2/16 130043	U U U J J U U U U U
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1,1-Dichloroethene 0. 1,2,4-Trimethylbenzene 1. 1,3,5-Trimethylbenzene 0.7 1,4-Dioxane 1. 2-Butanone 6. 2-Hexanone 1. 2-Propanol 7 4-Ethyltoluene 0.5 4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	6 U	2.5 40 12 17 7.8 1.2 230 9.7 3.2 610	J UJ J J	0.6 3.1 0.75 1.1 5.7 1.2 60 1.3 1.2	J U U U U U U U U U	0.6 0.8 0.75 1.1 1.5 1.2 38 0.5	U J UJ U	0.6 1.4 0.5 1.1 0.9 1.2 110	U J J U
1,2,4-Trimethylbenzene 1. 1,3,5-Trimethylbenzene 0.7 1,4-Dioxane 1. 2-Butanone 6. 2-Hexanone 1. 2-Propanol 7 4-Ethyltoluene 0.5 4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	3 J 5 UJ 6 J 7 EJ 5 J 6 D EJ	40 12 17 7.8 1.2 230 9.7 3.2 610	J UJ J J	3.1 0.75 1.1 5.7 1.2 60 1.3	J U U U U U U U U U	0.8 0.75 1.1 1.5 1.2 38 0.5	J UJ U	1.4 0.5 1.1 0.9 1.2 110	J J U
1,3,5-Trimethylbenzene 0.7 1,4-Dioxane 1. 2-Butanone 6. 2-Hexanone 1. 2-Propanol 7 4-Ethyltoluene 0.5 4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	5 UJ 6 J 8 EJ 5 J 6 EJ 6 EJ	12 17 7.8 1.2 230 9.7 3.2 610	J UJ J J	0.75 1.1 5.7 1.2 60 1.3 1.2	J U J UJ EJ J	0.75 1.1 1.5 1.2 38 0.5	UJ U UJ	0.5 1.1 0.9 1.2 110	J U U
1,4-Dioxane 1. 2-Butanone 6. 2-Hexanone 1. 2-Propanol 7 4-Ethyltoluene 0.5 4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	I U 6 J 8 8 1 EJ 5 J 1 D EJ 5	17 7.8 1.2 230 9.7 3.2 610 5	J UJ J	1.1 5.7 1.2 60 1.3 1.2	U J UJ EJ J	1.1 1.5 1.2 38 0.5	U	1.1 0.9 1.2 110	U U
2-Butanone 6. 2-Hexanone 1. 2-Propanol 7 4-Ethyltoluene 0.5 4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	6 J 8	7.8 1.2 230 9.7 3.2 610 5	UJ J	5.7 1.2 60 1.3	J UJ EJ J	1.5 1.2 38 0.5	UJ	0.9 1.2 110	U
2-Hexanone 1. 2-Propanol 7 4-Ethyltoluene 0.5 4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	3 EJ EJ EJ EJ EJ EJ EJ E	1.2 230 9.7 3.2 610 5	UJ J	1.2 60 1.3 1.2	UJ EJ J	1.2 38 0.5		1.2 110	
2-Propanol 7 4-Ethyltoluene 0.5 4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	1 EJ 5 J 1 D EJ	9.7 3.2 610 5	J J	60 1.3 1.2	EJ J	38 0.5		110	UJ
4-Ethyltoluene 0.5 4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	5 J 1	9.7 3.2 610 5	-	1.3 1.2	J	0.5	т		
4-Methyl-2-pentanone 2. Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	1 EJ	3.2 610 5	-	1.2			т	1	
Acetone 11 Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	EJ	610 5	J		* * * *				-
Benzene 1. Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	5	5				1.2	UJ	1.2	UJ
Carbon disulfide 1 Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5				82	EJ	180		360	
Chloroform 4. Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5				1.8		1.3		2.1	
Chloromethane 0.3 Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5		10		3.2		0.47	-	0.47	
Cis-1,2-Dichloroethene 1 Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5	-	31		17		0.74	U	0.74	U
Cyclohexane 0.5 Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5		0.31	U	0.31	U	0.73		0.59	
Dichlorodifluoromethane 2. Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5		26		8.5		0.6		0.6	U
Ethyl acetate 0.9 Ethyl benzene 2 Heptane 0.6 Hexane 0.5		0.52	U	0.52	U	0.52	U	3.3	
Ethyl benzene 2 Heptane 0.6 Hexane 0.5		2.6		2.8		2		2	
Heptane 0.6 Hexane 0.5		0.92	U	0.92		0.92		1.4	
Hexane 0.5		270		180		1300	EJ	2300	EJ
		0.62	-	0.62		1.2		2.5	
Lagartana 0.7		0.54		0.54		2.1		4.9	
	l U	0.71		0.71		1.1		2.2	
Methylene chloride 0.5		0.53		0.53		0.42		0.42	
Styrene 2.		0.65	UJ	0.65		0.65		0.65	
Tetrachloroethene 420		1400		1700	J	1.9	J	1.6	
Toluene 1		76		46		600		1300	
,		5.1		0.6	U	0.6	U	0.6	U
Trichloroethene 1600	5 U	31000		4100		27		28	
Trichlorofluoromethane 3.								0.97	
Xylene, m/p 9	5	53		42		0.97			
Xylene, o 1	5 2	53 1200 150		740 80	EJ	0.97 4600 430	EJ	6900 900	

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter (µg/m³)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air QC Code:

FS = Field Sample

Qualifiers:

- U = Not detected at a concentration greater than the reporting limit
- $E = Detected \ at \ a \ concentration \ greater \ than \ the \ calibration \ range$
- J = Estimated value

Bold = analyte detection

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Criteria:

Highlighted results within the guidance criteria for <u>Mitigate</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for Monitor, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

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Table 3.3 - Former Tishcon Corp. (130043F) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number		Former	Tishcon Corp (13	30043F)	
Site			Structure F		
Location	F-SS-01	F-SS-02	F-SS-03	F-IA-01	F-IA-02
Sample Date	2/16/2010	2/16/2010	2/16/2010	2/16/2010	2/16/2010
Sample ID	130043F-SS-01	130043F-SS-02	130043F-SS-03	130043F-IA-01	130043F-IA-02
QC Code		FS	FS	FS	FS
Parameter Name	Result Qualifier				
1,1,1-Trichloroethane	60	9.9	110	0.83 U	0.83 UJ
1,2,4-Trimethylbenzene	1 J	7.4 J	1.2	7.4 J	2.7 J
1,3,5-Trimethylbenzene	0.75 UJ	2.7 J	0.75 UJ	1.6 J	1.2 J
1,4-Dioxane	0.4 J	1.1 U	1.1 U	1.1 U	1.1 UJ
2-Butanone	4.7	12	1.7	8.3	0.9 U
2-Hexanone	1.2 U	1.4 J	1.2 U	1.2 UJ	1.2 UJ
2-Propanol	66 EJ	59	25	5.5	0.37 U
4-Ethyltoluene	0.75 U	1.8 J	0.75 U	3.4 J	1.7 J
4-Methyl-2-pentanone	0.96 J	3.1 J	0.75 J	2 J	1.6 J
Acetone	63 EJ	300	43	24 EJ	24 EJ
Benzene	0.78	3.2	0.42 J	1.4	1.6 J
Carbon disulfide	1.2	5.6	0.57	0.47 U	0.6 J
Carbon tetrachloride	0.96 U	0.96 U	0.96 U	0.51 J	0.45 J
Chloroform	0.74 U	0.94	0.74 U	0.74 U	0.74 U
Chloromethane	0.31 U	0.31 U	0.31 U	0.86	0.76 J
Cyclohexane	0.52 U	14	0.52 U	0.52 U	36 J
Dichlorodifluoromethane	5.7	2.4	0.75 U	2.3	2.2 J
Ethyl acetate	0.92 U	0.92 U	0.92 U	0.92 U	26 EJ
Ethyl benzene	1.7	2.5 J	1.1	7.3 J	3.8 J
Heptane	0.62 U	8.3	0.46 J	1.7	3.1 J
Hexane	0.54 U	7.5	0.54 U	0.54 U	16 EJ
Isooctane	0.71 U	0.71 U	0.71 U	0.71 U	0.57 J
Methylene chloride	0.53 U	0.53 U	0.53 U	0.42 J	1.6 J
Styrene	0.61 J	0.65 UJ	0.65 U	0.65 UJ	1.3 J
Tetrachloroethene	280	110 J	290	1.7 J	1.9 J
Toluene	2.8	12	1.4	7.2 J	71 EJ
Trichloroethene	0.6 J	4.2	0.82	3.2	1.8 J
Trichlorofluoromethane	5.7	2.3	5.5	1.2	1 J
Xylene, m/p	5.4	14 J	3	5.5 J	9.7 J
Xylene, o	0.88	3.8 J	0.53 J	2.6 J	2.7 J

 $NYSDEC = New\ York\ State\ Department\ of\ Environmental\ Conservation$

Results in microgram per cubic meter ($\mu g/m^3$)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air QC Code:

 $FS = Field \ Sample$

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

E = Detected at a concentration greater than the calibration range

J = Estimated value

Bold = analyte detection

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation,

"FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Criteria:

Highlighted results within the criteria for <u>Monitor</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

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Table 3.4 - Former LAKA Industries, Inc. (130043K) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number		Former LAKA Industries, Inc. (130043K)								
Site						cture K				
Location	K-S	S-01	K-S	S-02	K-S	SS-03	K-I	A-01	K-I	A-02
Sample Date	2/16	/2010	2/16	/2010	2/16	/2010	2/16/	2010	2/16	/2010
Sample ID	130043	K-SS-01	130043	K-SS-02	130043	K-SS-03	130043	K-IA-01	130043	K-IA-02
QC Code	F	FS	I	FS	I	FS	F	S	I	FS
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	77		36		2100		0.83	U	0.83	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	U	1.2	U	5		1.2	U	1.2	U
1,1-Dichloroethane	1.9		1.2		35		0.62	U	0.62	U
1,2,4-Trimethylbenzene	2.7	J	0.75		54	J	1.3		1.8	
1,3,5-Trimethylbenzene	0.8		0.75		21		0.75	U	0.55	
1,4-Dioxane	1.1		1.1	U	6	J	1.1	U	1.1	U
2-Butanone	6.6	-	2		57		4.1		2.3	
2-Hexanone	1.2	UJ	1.2	U	26		1.2		1.2	_
2-Propanol	32		39		0.37		58			EJ
4-Ethyltoluene	0.95		0.75		15		0.75		0.8	
4-Methyl-2-pentanone	1.2	J	1.2	U	12		1.2		1.2	
Acetone	96		32		200	EJ	29	EJ	74	EJ
Benzene	4.3		0.58		67		1.2		1.8	
Carbon disulfide	14		1.5		11		0.47		0.47	
Carbon tetrachloride	0.7	J	0.96	U	0.96	UJ	0.51		0.51	J
Chloroform	20		8.9		23		0.74	U	0.74	
Chloromethane	0.31	U	0.31	U	0.31	U	0.86		0.8	
Cis-1,2-Dichloroethene	1.3		2.8		120		0.6		0.6	-
Cyclohexane	0.52	,	0.52	U	16		0.52	U	0.52	U
Dichlorodifluoromethane	0.75	U	9.4		0.75	U	2.4		2.3	
Ethyl benzene	58		4.3		19	J	1.1		2.1	
Heptane	4		0.62	U	66		1.9		1.2	
Hexane	4.1		0.54		56		0.54		0.54	U
Isooctane	0.71	U	0.71	U	0.71	UJ	0.71	U	1.1	
Methylene chloride	0.53	-	0.53	-	0.53		0.46		0.39	J
Styrene	3.6	J	0.65	U	0.65	UJ	0.48	J	1.4	
Tetrachloroethene	280		650		1500		1.7		5.4	
Toluene	46		5.1		36	J	12	EJ	18	EJ
Trichloroethene	930		490		10000		0.87		0.6	
Trichlorofluoromethane	4.4		37		10		1.1		1.7	
Xylene, m/p	220		15		50		3.3		7.1	
Xylene, o	17		1.6		17	J	1.1		2.2	

 $NYSDEC = New\ York\ State\ Department\ of\ Environmental\ Conservation$

Results in microgram per cubic meter (µg/m³)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air QC Code:

FS = Field Sample

Qualifiers:

- U = Not detected at a concentration greater than the reporting limit
- E = Detected at a concentration greater than the calibration range
- J = Estimated value

Bold = analyte detection

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Criteria:

Highlighted results within the guidance criteria for <u>Mitigate</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for <u>Monitor</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

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Table 3.5 - Former EZ-EM, Inc. (130043N) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number				EZ	-EM, Inc	. (130043N	1)			
Site					Struct					
Location	N-S	SS-01	N-S	SS-02	N-S	S-03	N-I	A-01	N-L	A- 02
Sample Date	2/16	5/2010	2/16	5/2010	2/16	/2010	2/16	/2010	2/16/	2010
Sample ID	130043	N-SS-01	130043	N-SS-02	130043	N-SS-03	130043	N-IA-01	130043	N-IA-02
QC Code		FS]	FS	F	FS	I	FS	F	S
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	390		53000		640		1.2		1.2	
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.9		26		3		1.2		1.2	U
1,1-Dichloroethane	2.1		10		0.78		0.62		0.62	U
1,1-Dichloroethene	0.6	U	32		0.6	U	0.6	U	0.6	U
1,2,4-Trimethylbenzene	2.1		660		3.9		1		0.75	U
1,3,5-Trimethylbenzene	1		380	EJ	1.7		0.75		0.75	
1,4-Dioxane	1.1	_	20		1.1	U	1.1		1.1	
2-Butanone	9.6		140	EJ	3.4		1.6		0.78	
2-Hexanone	2.4	J	31		1.3		1.2	U	1.2	U
2-Propanol	64		87	J	68	J	2		2	
4-Ethyltoluene	0.75	J	280	EJ	1.3		0.75	U	0.75	U
4-Methyl-2-pentanone	1.3	J	17		0.75	J	1.2		1.2	
Acetone	110		1100	EJ	35			EJ	12	EJ
Benzene	2.6		9.4		0.65		0.81		0.78	
Carbon disulfide	6.2		15		1.9		0.47		0.47	
Carbon tetrachloride	0.96	_	0.96	UJ	0.96		0.58	J	0.7	
Chlorobenzene	0.7	UJ	0.51	J	0.7	U	0.7	U	0.7	U
Chloroform	2.8		15		0.69		0.74	U	0.74	
Chloromethane	0.31	U	0.31	U	0.31		1		0.78	
Cis-1,2-Dichloroethene	2		0.64		0.6	,	0.6		0.6	
Cyclohexane	3.3		0.52		0.52		0.52		0.52	U
Dichlorodifluoromethane	2		0.75		0.75		2.3		2.3	
Ethyl acetate	0.92	_	0.73		0.92	,	0.92		0.92	U
Ethyl benzene	1.9	J	230		2.8		0.66		0.66	
Heptane	1.5		7.3		0.79		0.62		0.62	
Isooctane	0.71	_	1.3		0.71		0.71		0.71	
Methylene chloride	0.53	-	0.53		0.53		0.53		0.39	
Styrene	0.87	J	0.65	UJ	0.65	U	0.65	U	0.65	
Tetrachloroethene	15000		9400		1200		1.6		1	
Tetrahydrofuran	1.7		50		18	J	0.45	U	0.45	U
Toluene	2.8	-	38		2.8		1.5		1.4	
Trichloroethene	1000		3200		80		0.22	U	0.33	
Trichlorofluoromethane	1.1		0.86		1.2		0.97		1.1	
Xylene, m/p	5.7	J	1500	EJ	12		0.79	J	0.66	J
Xylene, o	1.6	J	640	EJ	3		0.66	U	0.66	U
Notes:										

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter (µg/m³)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air QC Code:

 $FS = Field \ Sample$

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

Bold = analyte detection

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Criteria:

Highlighted results within the guidance criteria for <u>Mitigate</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

4.1 Table 3.5.xls Created by: BAS 04/27/2010
4.2 Page 1 of 1 Checked by: LJB 04/28/2010

Table 3.6 - Tishcon Corp, New York Ave. (130043V) - 2010 Vapor Intrusion Results

Site Name and NYSDEC Site Number Site Location Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date Date	V-IA-02 2/18/2010 130043V-IA-02 FS Result Qualifier 4.7 J 1.2 U 0.83 UJ 1.6
Sample Date Sample ID Sample ID QC Code 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010 2/18/2010	2/18/2010 130043V-IA-02 FS Result Qualifier 4.7 J 1.2 U 0.83 UJ 1.6
Sample ID QC Code FS FS FS FS FS FS FD FS J 1.5 I 1.5 I I 1.0 0.83 U 0.83 U 0.83 U 0.83 U 0.83 U 0.83 U 0.83 U <td>130043V-IA-02 FS Result Qualifier 4.7 J 1.2 U 0.83 UJ 1.6</td>	130043V-IA-02 FS Result Qualifier 4.7 J 1.2 U 0.83 UJ 1.6
Parameter Name	FS Result Qualifier 4.7 J 1.2 U 0.83 UJ 1.6
Parameter Name Result Qualifier Re	Result Qualifier 4.7 J 1.2 U 0.83 UJ 1.6
1,1,1-Trichloroethane	4.7 J 1.2 U 0.83 UJ 1.6
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2 U 0.83 UJ 1.6
I,1,2-Trichloroethane 0.83 U 0.83 U 0.83 UJ 1.8 0.83 UJ 1,1-Dichloroethane 72 79 J 8.2 J 7900 1.5 1,1-Dichloroethene 54 780 J 25 J 240 EJ 0.6 U 1,2,4-Trimethylbenzene 5 J 16 J 2.7 J 7 J 1 J 1,3,5-Trimethylbenzene 3.7 J 13 J 1.3 J 4.5 J 0.75 UJ 1,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J 1,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J 1,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J 1,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J 1,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J 1,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J 1,4-Dichlorobenzene 7.5 2.7 J 1.1 UJ 10 EJ 1.	0.83 UJ 1.6
1,1-Dichloroethane	1.6
1,1-Dichloroethene 54 780 J 25 J 240 EJ 0.6 U 1,2,4-Trimethylbenzene 5 J 16 J 2.7 J 7 J 1 J 1,3,5-Trimethylbenzene 3.7 J 13 J 1.3 J 4.5 J 0.75 UJ 1,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J 1,4-Dioxane 7.5 27 J 1.1 UJ 10 EJ 1.1 UJ 2-Butanone 2.7 4.9 4.5 2.8 4.9 2-Hexanone 1.2 U 0.92 J 1.2 UJ 1 J 1.2 UJ 2-Propanol 95 EJ 21 J 0.37 UJ 42 28 4-Ethyltoluene 1.1 0.75 UJ 1.6 J 6.6 0.55 J 0.55 J 4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J 2.6 J Acetone 30 350 350 170 49 140 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J 0.47 U	
1,2,4-Trimethylbenzene 5 J 16 J 2.7 J 7 J 1 J 1,3,5-Trimethylbenzene 3.7 J 13 J 1.3 J 4.5 J 0.75 UJ 1,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J 1,4-Dioxane 7.5 27 J 1.1 UJ 10 EJ 1.1 UJ 2-Butanone 2.7 4.9 4.5 2.8 4.9 2-Hexanone 1.2 U 0.92 J 1.2 UJ 1 J 1.2 UJ 2-Propanol 95 EJ 21 J 0.37 UJ 42 28 4-Ethyltoluene 1.1 0.75 UJ 1.6 J 6.6 0.55 J 4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	0.6 U
1,3,5-Trimethylbenzene 3,7 J 13 J 1,3 J 4,5 J 0.75 UJ 1,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J 1,4-Dioxane 7.5 27 J 1.1 UJ 10 EJ 1.1 UJ 2-Butanone 2.7 4.9 4.5 2.8 4.9 2-Hexanone 1.2 U 0.92 J 1.2 UJ 1 J 1.2 UJ 2-Propanol 95 EJ 21 J 0.37 UJ 42 28 4-Ethyltoluene 1.1 0.75 UJ 1.6 J 6.6 0.55 J 4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	0.0
I,4-Dichlorobenzene 0.92 U 0.86 J 1.7 J 0.92 U 1.8 J I,4-Dioxane 7.5 27 J 1.1 UJ 10 EJ 1.1 UJ 2-Butanone 2.7 4.9 4.5 2.8 4.9 2-Hexanone 1.2 U 0.92 J 1.2 UJ 1 J 1.2 UJ 2-Propanol 95 EJ 21 J 0.37 UJ 42 28 4-Ethyltoluene 1.1 0.75 UJ 1.6 J 6.6 0.55 J 4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	1.3 J
I,4-Dioxane 7.5 27 J 1.1 UJ 10 EJ 1.1 UJ 2-Butanone 2.7 4.9 4.5 2.8 4.9 2-Hexanone 1.2 U 0.92 J 1.2 UJ 1 J 1.2 UJ 2-Propanol 95 EJ 21 J 0.37 UJ 42 28 4-Ethyltoluene 1.1 0.75 UJ 1.6 J 6.6 0.55 J 4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	0.75 UJ
2-Butanone 2.7 4.9 4.5 2.8 4.9 2-Hexanone 1.2 U 0.92 J 1.2 UJ 1 J 1.2 UJ 2-Propanol 95 EJ 21 J 0.37 UJ 42 28 4-Ethyltoluene 1.1 0.75 UJ 1.6 J 6.6 0.55 J 4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	1.6 J
2-Hexanone 1.2 U 0.92 J 1.2 UJ 1 J 1.2 UJ 2-Propanol 95 EJ 21 J 0.37 UJ 42 28 4-Ethyltoluene 1.1 0.75 UJ 1.6 J 6.6 0.55 J 4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	1.1 UJ
2-Propanol 95 EJ 21 J 0.37 UJ 42 28 4-Ethyltoluene 1.1 0.75 UJ 1.6 J 6.6 0.55 J 4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	4.4
4-Ethyltoluene 1.1 0.75 UJ 1.6 J 6.6 0.55 J 4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	1.2 UJ
4-Methyl-2-pentanone 12 1000 EJ 31 J 13 2.6 J Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	0.37 U
Acetone 30 350 170 49 140 Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	0.55 J
Benzene 1.3 1.6 1.6 J 2.1 1.3 J Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	3.6 J
Carbon disulfide 0.79 9.2 0.98 4.1 0.47 U	280
	1.3 J
	0.47 U
Carbon tetrachloride 0.9 J 0.96 U 0.96 U 0.96 U 0.51 J	0.51 J
Chlorobenzene 0.7 U 0.7 UJ 0.51 J 0.7 U 0.7 UJ	0.47 J
Chloroform 8.7 1.3 0.74 U 40 0.74 U	0.74 U
Chloromethane 0.31 U 0.31 U 0.31 U 0.31 U 1.4	1.1
Cis-1,2-Dichloroethene 1.8 0.6 U 0.6 U 49 0.6 U	0.6 U
Dichlorodifluoromethane 0.75 U 2.2 0.75 U 0.75 U 3	3.2
Ethyl acetate 0.92 U 1.1 2.3 0.92 U 3.5	3.5
Ethyl benzene 15 390 J 68 55 EJ 41	59
Heptane 1.2 3.1 J 9.7 J 1.8 9.2 J	8.7
Hexane 0.54 U 3.5 10 0.54 U 6.4	5.4
Methylene chloride 0.53 U 0.53 U 1.6 0.53 U 1.5	1.7
<u>Tetrachloroethene</u> 1100 780 J 1500 1500 610	1600 J
Toluene 5.1 320 110 12 59	68
trans-1,2-Dichloroethene 0.6 U 0.6 U 0.6 U 2.9 0.6 U	
Trichloroethene 1000 43 J 5.8 J 800 2.5 J	0.6 U
Trichlorofluoromethane 3 2.6 6.7 2.7 4.2	2.5 J
Xylene, m/p 59 1500 250 200 EJ 83 J	2.5 J 4.6
Xylene, o 10 360 J 80 J 53 EJ 27	2.5 J

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter (µg/m³)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air

QC Code:

FS = Field Sample

FD = Field Duplicate Sample

Qualifiers:

- U = Not detected at a concentration greater than the reporting limit
- $E = Detected \ at \ a \ concentration \ greater \ than \ the \ calibration \ range$
- $J = Estimated \ value$

Bold = analyte detection

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Criteria:

Highlighted results within the guidance criteria for <u>Mitigate</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for Monitor, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

4.1 Table 3.6.xls Created by: BAS 04/27/2010
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MACTEC Engineering and Consulting, P.C., Project No. 3612092127

Location	A-A	AA-1	N-A	A-2	V-A	A-1
Sample Date	2/15	/2010	2/16/	2010	2/18/	2010
Sample ID	130043	3-AA-01	130043	-AA-02	130043V	V-AA-01
QC Code	F	FS		S	F	S
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.83	U	0.83	U	0.83	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	U	1.2	U	1.2	U
1,1,2-Trichloroethane	0.83	U	0.62	U	0.83	U
1,1-Dichloroethane	0.62	U	0.6	U	0.62	U
1,2,4-Trimethylbenzene	2		0.75	U	0.6	U
1,3,5-Trimethylbenzene	1.2		0.75	U	0.75	U
2-Butanone	0.9	U	1.1	U	0.75	U
2-Hexanone	1.2	U	0.78	*	0.92	
2-Propanol	0.37	U	1.2	U	1.1	U
4-Ethyltoluene	1.3		2.1		1.1	
4-Methyl-2-pentanone	1.2	U	0.75	U	1.2	
Acetone	44		1.2	U	6.2	EJ
Benzene	1.3		12	EJ	0.75	U
Bromodichloromethane	1	U	0.75		1.2	
Carbon disulfide	0.41	J	0.47	U	17	EJ
Carbon tetrachloride	0.58	J	0.58	J	0.88	
Chloroform	1.2		0.7	U	0.47	U
Chloromethane	0.69		0.74	U	0.58	J
Cis-1,2-Dichloroethene	0.6	U	0.78		0.7	-
Cyclohexane	12		0.6		0.74	U
Dichlorodifluoromethane	2,2		0.52	U	0.8	
Ethyl acetate	11	J	2.3		0.6	U
Ethyl benzene	11		0.92	-	2.5	
Heptane	1.7		0.66	U	0.92	U
Hexane	6.6		0.62		0.49	
Isooctane	0.62	J	0.71	U	0.62	
Methylene chloride	1.3		0.53		0.54	U
Styrene	1.7		0.65	U	1.3	
Tetrachloroethene	4.6		1.1		4.1	
Toluene	57		0.45	U	3.7	
trans-1,2-Dichloroethene	0.69		2.3		0.6	
Trichloroethene	2.1		0.22	U	0.22	U
Trichlorofluoromethane	1.1		1		1.2	
Xylene, m/p	11	J	1.3	U	1.2	J
Xylene, o	6.3		0.66	U	0.66	U
Notes:	-		-			

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter $(\mu g/m^3)$

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air

A-AA-1 = IMC Magnetics (130043A)

N-AA-2 = EZ-EM, Inc. (130043N)

V-AA-1 = Tishcon Corp, New York Ave. (130043V)

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

 $E = \mbox{Detected at a concentration greater than the calibration range} \label{eq:energy}$

J = Estimated value

Bold = analyte detection

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

4.1 Table 3.7.xls Page 1 of 1 Checked by: LJB 04/28/2010

Table 3.8: Tishcon Corp, New York Ave. (130043V) Direct Push Soil VOC Results

	Location	V-D	P-01	V-D	P-02	V-DP-04		V-D	P-05
	Sample Date	5/19/2010		5/19/2010		5/19/2010		5/19/	2010
	Sample ID	130043V-DP125		130043V-DP224		130043V-DP410		130043V	V-DP511
San	Sample Depth (ft bgs)		25		24		10		1
Parameter Name (mg/kg)	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	0.0055	U	0.0056	U	0.0081		0.0041	U
1,1-Dichloroethane	0.27	0.0017	J	0.0056	U	0.0031		0.0041	U
Acetone	0.05	0.019	J	0.023	J	0.015	U	0.02	U
Methylene chloride	0.05	0.0036	J	0.0039	J	0.003	U	0.0012	J
Tetrachloroethene	1.3	0.0055	U	0.0056	U	0.0012	J	0.0041	U

VOC = volatile organic compounds (only detected compounds shown.)

Samples analyzed for VOCs by EPA Method 8260B

mg/kg = milligrams per kilogram

ft bgs = feet below ground surface

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

Criteria = 6 NYCRR 375 Soil Cleanup Objectives for unrestricted use.

Detections are indicated in **BOLD**

APPENDIX A

FIELD DATA RECORDS

		INDOOR A	AIR SAMF	PLING RECORE			
Project Name: N	uA.	Client:	WOEL		Location ID:		
Project Number: 3	120921	27Collector:_	B Si	ra W	Date:	2-15-2010	
		SUMMA C	anister Re	cord Information:		·	
INDOOR AIR SA	MPLE	INDOOR AIR S	AMPLE	\INDOOR AIR S	AMPLE	ASSOCIATED A	MBIENT
Flow Regulator No:	688	Flow Regulator No:	695	Flow Regulator No:	_·	Flow Regulator No:	478
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	314	Canister Serial No:	عاياا	Canister Serial No:		Canister Serial No:	246
Start Date/Time:	1810	Start Date/Time:	02-15-16 1835	Start Date/Time:		Start Date/Time:	18:47
Start Pressure ("Hg):	~ 30	Start Pressure ("Hg):	-29	Start Pressure ("Hg):		Start Pressure ("Hg):	- 30
Stop Date/Time:	02-16-16	Stop Date/Time:	02-16-10 1732	Stop Date/Time:		Stop Date/Time:	1734
Stop Pressure ("Hg):	-2	Stop Pressure ("Hg):	73	Stop Pressure ("Hg):		Stop Pressure ("Hg):	-3
Sample ID: 1300 13A - IA -	0	Sample ID: 130043A-IA	-02	Sample ID:	\	Sample ID: 130043 - A	A-01
	-	Othe	r Sampling	Information:			
Story/Level:	154	Story/Level:	18	Story/Level:		Direction from Building:	7
Room:	Classrad	Room:	office po	Room:		Distance from Building:	~51
Potential Vapor Entry Points:	1 à a	Potential Vapor Entry Points:	1	Potential Vapor Entry Points:		Distance from Roadway:	~50'
Floor Surface:	tile	Floor Surface:	curpet.	Floor Sulface:		Ground Surface:	Show
Noticable Odor:	Signt.	Noticable Odor:	chlonne	Noticable Odor:	. •	Noticable Odor:	nove
PID Reading (ppb):	450ppL	PID Reading (ppb):	950 pp	PID Reading (ppb):	<u> </u>	PID Reading (ppb):	-0 1
Intake Height:	~ 31	Intake Height:		Intake Height:		Intake Height Above Ground Surface:	1 2.51
Indoor Air Temp:	-18,0	Indoor Air Temp:	~20·C	Indoor Air Temp:		intake Tubing Used?	Ν
Comments/Location	n Sketch:						
11.40							
MA	\C T	'EC			INDOOD	AID CAMPUING	DECORD
511 Congress St		•			NOOOR	AIR SAMPLING	KECUKD

Ta St. Maria		INDOOR A	AIR SAMF	PLING RECORE			
Project Name:	CIA	Client:	NYSD)EC	Location ID:	35-04	A
Project Number: 36		27_Collector:_	BAS	<u>S</u>	Date: <u> </u>	10	
		SUMMA C	anister Re	cord Information:			
SUBSLAB SOIL VAPO	R SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	ASSOCIATED A	VIBIENT
Flow Regulator No:	699	Flow Regulator No:	690	Flow Regulator No:	679	Flow Regulator No:	678
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	627	Canister Serial No:	605	Canister Serial No:	576	Canister Serial No:	246
Start Date/Time:	2/15:1811	Start Date/Time:	2/15-1756	Start Date/Time:	1842	Start Date/Time:	1847
Start Pressure ("Hg):	-30+	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	一 30	Start Pressure ("Hg):	-30.
Stop Date/Time:	1709	Stop Date/Time:	1719	Stop Date/Time:	02-16-10 1734	Stop Date/Time:	02-16-10
Stop Pressure ("Hg):	-4	Stop Pressure ("Hg):	l	Stop Pressure ("Hg):	-1	Stop Pressure ("Hg):	-3
Sample ID: Sample ID: Sample ID: Sample ID: Sample ID: 130043A-SS-02 130043A-SS-03 136043-AA-S							
		Othe	r Sampling	Information:		٠.	
Finished Basement, Crawl Space, Unfinished Basement	1 1 1 1	Finished Basement, Crawl Space, Unfinished Basement		Finished Basement, Crawl Space, Unfinished Basement	office	Direction from Building:	1 1 %
Floor Slab Thickness:	~6"	Floor Slab Thickness:	~5.5"	Floor Slab Thickness:	~ 6 "	Distance from Building:	~5 ^t
Potential Vapor Entry Points:	1 1 1	Potential Vapor Entry Points:	10000	Potential Vapor Entry Points:	none	Distance from Roadway:	~501
Floor Surface:	Concrete	Floor Surface:	Conevete	Floor Surface:	tile	Ground Surface:	Show
Noticable Odor:	110-	Noticable Odor:		Noticable Odor:	na.	Noticable Odor:	None
PID Reading (ppb):		PID Reading (ppb):	2 ppr=	PID Reading (ppb):		PID Reading (ppb):	~011
Intake Depth/Height:		Intake Depth/Height:		Intake Depth/Height:	3	Intake Height Above Ground Surface:	
Helium Test Condücted? Breakthrough %:	170.	Helium Test Conducted?	NO.	Helium Test Conducted?		Intake Tubing Used?	ν.
Comments/Location							
	shop.						
					•		
		•				•	

		INDOOR	AIR SAM	PLING RECORE			
Project Name:	NUIA	Client:	NNST	DEV	Location ID:_	Structure 12-16-2019	B
Project Number:	341209212	Collector:	B	Shaw	Date: C	12-16-2010	
		SUMMA C	Zanister Re	cord Information:			
INDOOR AIR S	AMPLE	INDOOR AIR S	AMPLE	INDOOR AIR S	AMPLE	ASSOCIATED A	MBIENT
Flow Regulator No	677	Flow Regulator No:	685	Flow Regulator No:		Flow Regulator No:	
Flow Rate (mL/min):	Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No	400	Canister Serial No:	101	Canister Serial No:		Canister Serial No:	
Start Date/Time	# 216/10 =10.56	Start Date/Time:	2/16/10	954Start Date/Time:		Start Date/Time:	
Start Pressure ("Hg		Start Pressure ("Hg):		Start Pressure ("Hg)		Start Pressure ("Hg):	
Stop Date/Time	e: 07-17-10	Stop Date/Time:	02-17-10	Stop Date/Time:		Stop Date/Time:	
Stop Pressure ("Hg): -5	Stop Pressure ("Hg):	-3	Stop Pressure ("Hg):		Stop Pressure ("Hg):	
Sample ID: / 30043	B-IA-01	Sample ID: 130043 - I	A-02	Sample ID:		Sample ID:	
	<u></u>	- Mary IV.		Information:			
Story/Leve	1St Floor 60 ound t	Story/Level:	1st or Groundly	y Story/Level:		Direction from Building:	
Roor	\sim	Room:	1	Room:		Distance from Building:	
Potential Vapor Ent Point	ry 1	Potential Vapor Entry Points:	11. (1.)	Potential Vapor Entry Points:		Distance from Roadway:	
Floor Surfac		Floor Surface:				Ground Surface:	
Noticable Odd	11/		Yes. Developas	Noticable Odol		Noticable Odor:	
PID Reading (ppt	- 1	DID Books (such)	23.1ppn	PID Reading (ppb):		PID Reading (ppb):	
Intake Heigh		Intake Height:	4ft.	Intake Height:		Intake Height Above Ground Surface:	
Indoor Air Tem		Indoor Air Temp:	68°F	Indoor Air Temp:		Intake Tubing Used?	
Comments/Location	on Sketch:						
Sididi To The							
	ACT	'EC			INDOOR	AIR SAMPLING	RECORD
511 Congress					INDOOR	AIN SAMELING	KECOKD

•		INDOOR A	AIR SAMF	PLING RECORE)		
Project Name:	ruiA	Client:	NYSDI	av .	Location ID:	Structure	B
Project Number: 3			BSV	land	Date:	Struture 02-16-2018	<u> </u>
		SUMMA C	anister Red	cord Information:			
SUBSLAB SOIL VAPO	R SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	ASSOCIATED A	MBIENT
Flow Regulator No:	700	Flow Regulator No:	681	Flow Regulator No:	680	Flow Regulator No:	B
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	644	Canister Serial No:	636	Canister Serial No:	614	Canister Serial No:	
Start Date/Time:	2/16/10 0459	Start Date/Time:	2/16/10	Start Date/Time:	2/16/10 0950	Start Date/Time:	
Start Pressure ("Hg):	_30	Start Pressure ("Hg):	-28	Start Pressure ("Hg):	-30.	Start Pressure ("Hg):	
Stop Date/Time:	02-17-10 E823	Stop Date/Time:	02-17-10 0821	Stop Date/Time:	02-17-10 VS18	Stop Date/Time:	
Stop Pressure ("Hg):	-4	Stop Pressure ("Hg):	-5	Stop Pressure ("Hg):	-12	Stop Pressure ("Hg):	:
Sample ID: 130043B - 9	55-01	Sample ID: /30043 <i>B</i> - S		Sample ID: <i> 30043R -</i>	55-03	Sample ID:	
		Othe	r Sampling	Information:			
Finished Basement, Crawl Space, Unfinished Basement	b 7/1 - 4 1/4/ ∣	Finished Basement, Crawl Space, Unfinished Basement	on-grade	Finished Basement, Crawl Space, Unfinished Basement	on-grade	Direction from Building:	
Floor Slab Thickness:	~ le"	Floor Slab Thickness:	16n	Floor Slab Thickness:	16"	Distance from Building:	
Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	hore	Distance from Roadway:	
Floor Surface:	concrete	Floor Surface:	anerete	Floor Surface:	Concrete	Ground Surface:	
Noticable Odor:	N4.	Noticable Odor:	na	Noticable Odor:	na	Noticable Odor:	
PID Reading (ppb):	10.300	PID Reading (ppb):	32.3pph	PID Reading (ppb):	8.5 ppm	PID Reading (ppb):	
Intake Depth/Height:		Intake Depth/Height:	~17"	Intake Depth/Height:	17"	Intake Height Above Ground Surface:	
Helium Test Conducted? Breakthrough %:		Helium Test Conducted?		Helium Test Conducted?		Intake Tubing Used?	
Comments/Location	Sketch:					<u> </u>	

Comments/Location Sketch:



INDOOR AIR SAMPLING RECORD								
Project Name:N	CIA	Client:	N 4201		Location ID:	Justure	F	
Project Name: NCIA Client: NYSDEV Location ID: Structure F Project Number: 3612092127 Collector: B-Shav Date: 02-16-2010								
SUMMA Canister Record Information:								
INDOOR AIR SA	MPLE	INDOOR AIR S	AMPLE	₹ INDOOR AIR S	AMPLE	ASSOCIATED A	MBIENT	
Flow Regulator No:	62	Flow Regulator No:	689	Flow Regulator No:		Flow Regulator No:		
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		
Canister Serial No:	237	Canister Serial No:	164	Canister Serial No:		Canister Selijal No:		
Start Date/Time:	1414	Start Date/Time:	1412	Start Date/Time:		Start Date/Time:		
Start Pressure ("Hg):	-281	Start Pressure ("Hg):		Start Pressure ("Hg):		Start Pressure ("Hg):		
Stop Date/Time:	02-17-10	Stop Date/Time:	1328	Stop Date/Time:		Stop Date/Time:	·	
Stop Pressure ("Hg):	×	Stop Pressure ("Hg):	3	Stop Pressure ("Hg):		Stop Pressure ("Hg):		
Sample ID: 130VBF-IA	-01	Sample ID: 130043ドーエ,	4-02	Sample ID:		Sample ID:		
Other Sampling Information:								
Story/Level:	Ist	Story/Level:	1	Story/Level:		Direction from Building:		
Room:	Hayras	Room:	office	Room:		Distance from Building:		
Potential Vapor Entry	None	Potential Vapor Entry Points:	genezi den	Potential Vapor Entry Points:	·.	Distance from Roadway:		
Floor Surface:	Cinarete	Floor Surface:	tile	Floor Surface:		Ground Surface:		
Noticable Odor:	oils	Noticable Odor:	Smore	Noticable Odor:		Noticable Odor:		
PID Reading (ppb):	345	PID Reading (ppb):	415	PID Reading (ppb):	1	PID Reading (ppb):		
Intake Height:	լ •	Intake Height:	43'	Intake Height:		Intake Height Above Ground Surface:		
Indoor Air Temp:		Indoor Air Temp:	150	Indoor Air Temp:		Intake Tubing Used?		
Comments/Location	n Sketch:				1. 1.	1		
							,	
MM	C T	EC			INDOOR	AIR SAMPLING	RECORD	
511 Congress S								

INDOOR AIR SAMPLING RECORD								
Project Name:N	CIA	Client:	NYTOE	7	Location ID:	Structure	F-	
Project Name: NOIA Client: NYSDEC Location ID: Structure F- Project Number: 3612012127 Collector: BShaw Date: 02-16-2010								
		SUMMA C	anister Re	cord Information:				
SUBSLAB SOIL VAPO	R SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	% SSOCIATED AI	MBIENT	
Flow Regulator No:	697	Flow Regulator No:	648.	Flow Regulator No:	682	Flow Regulator No:		
Flow Rate (mL/min):	, ÷	Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		
Canister Serial No:	635	Canister Serial No:	631	Canister Serial No:	583	Canister Serial No:		
Start Date/Time:	1405	Start Date/Time:	1411	Start Date/Time:	1409.	Start Date/Time:		
Start Pressure ("Hg):	-28	Start Pressure ("Hg):	-30 [†]	Start Pressure ("Hg):	-29	Start Pressure ("Hg):		
Stop Date/Time:	02-17-18	Stop Date/Time:	1334	Stop Date/Time:	02-17-10	Stop Date/Time:		
Stop Pressure ("Hg):	-	Stop Pressure ("Hg):	-7	Stop Pressure ("Hg):	-2	Stop Pressure ("Hg):	/	
Sample ID: Sample ID: Sample ID: 130043F-55-03 Sample ID:					Sample ID:			
Other Sampling Information:								
Finished Basement, Crawl Space, Unfinished Basement	garaje	Finished Basement, Crawl Space, Unfinished Basement	gwase	Finished Basement, Crawl Space, Unfinished Basement	genage	Direction from Building:		
Floor Slab Thickness:	~5"	Floor Slab Thickness:	17,511	Floor Slab Thickness:	~7.54	Distance from Building:		
Potential Vapor Entry Points:	hone	Potential Vapor Entry Points:	none	Potential Vapor Entry Points:	none	Distance from Roadway:		
Floor Surface:	Concrete	Floor Surface:	Concrett	Floor Surface:	Concrete	Ground Surface:		
Noticable Odor:	oils	Noticable Odor:	01-15	Noticable Odor:	orls	Noticable Odor:		
PID Reading (ppb):	651	PID Reading (ppb):	2655	PID Reading (ppb):	360	PID Reading (ppb):		
Intake Depth/Height:	Y	Intake Depth/Height:		Intake Depth/Height:	~9"	Intake Height Above Ground Surface:		
Helium Test Conducted? Breakthrough %:	l N	Helium Test Conducted?		Helium Test Conducted?	Ne	Intake Tubing Used?		
Comments/Location	ı Sketch:						•	

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511 Congress Street, Portland, ME 04101

	INDOOR	AIR SAMF	PLING RECORE					
			W	Location ID:	Structure to			
Project Number: 3412092127 Collector: B SNAW Date: 07 -16-2010.								
SUMMA Canister Record Information:								
MPLE	INDOOR AIR S	AMPLE	NDOOR AIR S	AMPLE	ÀSSOCIATED A	MBIENT		
k86	Flow Regulator No:	L &3	Flow Regulator No:		Flow Regulator No:			
	Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):			
549	Canister Serial No:	361	Canister Semal No:		Canister Serial No:			
02-16-10.	Start Date/Time:	02-16-10	Start Date/Time:		Start Date/Time:			
-24	Start Pressure ("Hg):	-30	Start Pressure ("Hg):		Start Pressure ("Hg):			
02-17-10	Stop Date/Time:	02-17-10	Stop Date/Time:		Stop Date/Time:	\		
-4	Stop Pressure ("Hg):	-9	Stop Pressure ("Hg):		Stop Pressure ("Hg):			
4-012	Sample ID: V30°43K-TA		Sample ID:		Sample ID:			
Other Sampling Information:								
154	Story/Level:	ist	Story/Level:		Direction from Building:			
office	Room:	ottile	Room:		Distance from Suilding:			
inne	Potential Vapor Entry Points:	hone	Potential Vapor Entry Points:		Distance from Roadway:			
Curpet	Floor Surface:	carpet	Floor Surfáce:		Ground Surface:			
Wone	Noticable Odor:		Noticable Odor:		Noticable Odor:			
481	PID Reading (ppb):	(87	PID Reading (ppb):		PID Reading (ppb):			
~5 ¹	Intake Height:	~3 ¹	Intake Height:		Intake Height Above Ground Surface:			
190	Indoor Air Temp:	1196	Indoor Air Temp:	\	Intake Tubing Used?	\		
n Sketch:		-						
			,					
			·					
CT	FC	-						
				INDOOR	AIR SAMPLING	RECORD		
	MPLE 186 549 02-16-10. 152 -29 02-17-10. 1045 -4 A-010 15t office inone Curpet inone 481 -5' ~19'U Sketch:	SUMMA COMPLE SUMMA COMPLE INDOOR AIR S. ISSUMMA COMPLE INDOOR AIR S. ISSUMMA COMPLE INDOOR AIR S. ISSUMMA COMPLE Flow Regulator No: Flow Rate (mL/min): 549 Canister Serial No: O2-15-10 Start Date/Time: 152 Start Pressure ("Hg): O2-17-10 Stop Date/Time: 1045 Sample ID: 134 Sample ID: 135 Othe Story/Level: Floor Surface: INDOOR AIR S. Flow Regulator No: Start Date/Time: 154 Story Pressure ("Hg): Othe Othe Othe If Story/Level: Floor Surface: INDOOR AIR S. Floor Surface: Noticable Odor: ASI PID Reading (ppb): Intake Height: Indoor Air Temp:	SUMMA Canister Rev. SUMMA Canister Rev. SUMMA Canister Rev. MPLE INDOOR AIR SAMPLE L&& Flow Regulator No: 143 Flow Rate (mL/min): 549 Canister Serial No: 361 O2-16-10: Start Date/Time: 02-16-10 1152 Start Pressure ("Hg): -30 O2-17-18 1045 Stop Date/Time: 1106 - 4 Stop Pressure ("Hg): -9 A-old Sample ID: 130 043k - TA - OL Other Sampling If Story/Level: 15† office Room: office wore Potential Vapor Entry Points: Wore Groot Floor Surface: (urpet Noticable Odor: None 481 PID Reading (ppb): 1,871 Intake Height: -31 NETEC	SUMMA Canister Record Information: MPLE INDOOR AIR SAMPLE NDOOR AIR SUMMA Canister Record Information: MPLE INDOOR AIR SAMPLE NDOOR AIR SUMMA Canister Record Information: MPLE INDOOR AIR SAMPLE NDOOR AIR SUMMA Canister Serial No: 163 Flow Regulator No: 163 Flow Regulator No: 163 Flow Regulator No: 163 Flow Regulator No: 164 Canister Serial No: 36 Canister Serial No: 36 Canister Serial No: 36 Canister Serial No: 1138 Start Date/Time: 1138 Start Date/Time: 1138 Start Date/Time: 1138 Start Date/Time: 1106 Stop Pressure ("Hg): -9 Stop	SUMMA Canister Record Information: MPLE INDOOR AIR SAMPLE NDOOR AIR SAMPLE 186 Flow Regulator No: 183 Flow Regulator No: 183 Flow Rate (mL/min): Start Date/Time: 134 Flow Rate (mL/min): Flow Rate (SUMMA Canister Record Information: SUMMA Canister Record Information: SUMMA Canister Record Information: SUMMA Canister Record Information: SUMMA Canister Record Information: SUMMA Canister Record Information: SUMMA Canister Record Information: SUMMA Canister Record Information: SUMMA Canister Record Information: Flow Regulator No: Canister Serial No: Start Date/Time: Start		

INDOOR AIR SAMPLING RECORD								
Project Name:	NOI A.	Client:	MASI	Dec-	Location ID:	Structure =		
Project Name: NOIA. Client: NYSDEC Location ID: Structure F. Project Number: 36:20927 Collector: B. Shew Date: 02-16-2010.								
		SUMMA C	anister Red	cord Information:				
SUBSLAB SOIL VAPO	R SAMPLE	SUBSLAB SOIL VAPO	OR SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	ASSOCIATED AN	BIENT	
Flow Regulator No:	696	Flow Regulator No:	Je43094	Flow Regulator No:	643	Flow Regulator No:		
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		
Canister Serial No:	617	Canister Serial No:	16556	Canister Serial No:	641	Canister Serial No:		
Start Date/Time:	2116110 10:58	Start Date/Time:	1142	Start Date/Time:	2-16-10.	Start Date/Time:		
Start Pressure ("Hg):	00	Start Pressure ("Hg):		Start Pressure ("Hg):	-28	Start Pressure ("Hg):		
Stop Date/Time:	1101	Stop Date/Time:	1108	Stop Date/Time:	02~17-10 1055	Stop Date/Time:		
Stop Pressure ("Hg):	-2	Stop Pressure ("Hg):	1	Stop Pressure ("Hg):	1	Stop Pressure ("Hg):		
Sample ID: 130043 K - SS	-01	Sample ID: 130043 F	-55-02	Sample ID: \30043k-9	55-03	Sample ID:	•	
Other Sampling Information:								
Finished Basement, Crawl Space, Unfinished Basement	No besemen Ground Floor.	Finished Basement, Crawl Space, Unfinished Basement	office	Finished Basement, Crawl Space, Unfinished Basement	gy rape	Direction from Building:		
Floor Slab Thickness:	8 inch	Floor Slab Thickness:	~ (d	Floor Slab Thickness:	1711	Distance from Building:		
Potential Vapor Entry Points:		Potential Vapor Entry Points:	hone	Potential Vapor Entry Points:	none	Distance from Roadway:		
Floor Surface:	Concrete	Floor Surface:	(oncrete n	Floor Surface:	ancrete	Ground Surface:		
Noticable Odor:	Nore	Noticable Odor:	na	Noticable Odor:		Noticable Odor:		
PID Reading (ppb):	1300 ррм	PID Reading (ppb):	702	PID Reading (ppb):	- PP -	PID Reading (ppb)		
Intake Depth/Height:	10 inch	Intake Depth/Height:	~ 8"	Intake Depth/Height:	- N 11	Intake Height Above Ground Surface:		
Helium Test Conducted? Breakthrough %:		Helium Test Conducted?	17	Helium Test Conducted?	1 1 1	Intake Tubing Used?	<u></u>	
Comments/Location	Sketch:							
			•					



INDOOR AIR SAMPLING RECORD							
	OIA	Client:	NYSD	EV	Location ID:	Structure N 02-16-2010	
Project Number: 3	4120921	27 Collector:	B SV	nard	Date:	02-16-2010	
		SUMMA C	anister Red	cord Information:			
INDOOR AIR SA	MPLE	INDOOR AIR S	AMPLE	INDOOR AIR S	AMPLE	ASSOCIATED A	MBIENT
Flow Regulator No:	41	Flow Regulator No:	123	Flow Regulator No:		Flow Regulator No:	176
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	286	Canister Serial No:		Carlister Serial No:		Canister Serial No:	87
Start Date/Time:	02-16-10 1543	Start Date/Time:	1621	Start Date/Time:		Start Date/Time:	1635
Start Pressure ("Hg):	_26	Start Pressure ("Hg):	-29	Start Pressure ("Hg):		Start Pressure ("Hg):	-28
Stop Date/Time:	0271-10	Stop Date/Time:	02-17-10	Stop Date/Time:			62-17-10
Stop Pressure ("Hg):	All the way TO piny	Stop Pressure ("Hg):	-5	Stop Pressure ("Hg):		Stop Pressure ("Hg):	
Sample ID: 130143N - IA - 6	i	Sample ID: 130043N-IA	-02	Sample ID:	$\overline{}$	Sample ID: 136643 - AA	-62.
Other Sampling Information:							
Story/Level:	let	Story/Level:	ist	Story/Level:		Direction from Building:	2
Room:	Wirehouse	Room:	warehouse	Room:		Distance from Building:	1~~
Potential Vapor Entry Points:	civatt reshood door	Potential Vapor Entry Points:	draftly doors	Potential Vapor Entry Points:		Distance from Roadway:	10 500 1
Floor Surface:	Concrete	Floor Surface:	concrete	Floor Surface:		Ground Surface:	snow
Noticable Odor:	hone	Noticable Odor:	none	Noticable Odor:		Noticable Odor:	none
PID Reading (ppb):	0 - 0	PID Reading (ppb):	150	PID Reading (ppb):		PID Reading (ppb):	
Intake Height:	~3°	Intake Height:	<u> </u>	Intake Height:		Intake Height Above Ground Surface:	
Indoor Air Temp:		Indoor Air Temp:	1146	Indoor Air Temp:		Intake Tubing Used?	\sim
Comments/Location	n Sketch:						
Made -							
	L^{\prime}	EC			INDOOR	R AIR SAMPLING	RECORD

511 Congress Street, Portland, ME 04101

		INDOOR A	AIR SAMF	PLING RECORD			
	INA	Client:	MISDEL	/	Location ID:	Struture	N
Project Number: 36	1109717	Collector:	Ban	200	Date: UF	-16-2010-	
·		SUMMA C	anister Re	cord Information:			
SUBSLAB SOIL VAPO	R SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	ASSOCIATED A	MBIENT
Flow Regulator No:	691	Flow Regulator No:	le92	Flow Regulator No:	687	Flow Regulator No:	176
Flow Rate (mL/min):	≈0.7	Flow Rate (mL/min):	≈ 0.7	Flow Rate (mL/min):	≈ 0.7	Flow Rate (mL/min):	≈0.7
Canister Serial No:	5	Canister Serial No:	140.	Canister Serial No:	238	Canister Serial No:	87
Start Date/Time:	1541	Start Date/Time:	16 19	Start Date/Time:	1555	Start Date/Time:	1635
Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-28
Stop Date/Time:	02-17-10	Stop Date/Time:	02-17-10	Stop Date/Time:	14:34	Stop Date/Time:	1448
Stop Pressure ("Hg):	-5	Stop Pressure ("Hg):	>	Stop Pressure ("Hg):	0	Stop Pressure ("Hg):	
Sample ID: Sample ID: 130043 N - SS - 02 130043 N - S				Sample ID: 130043 N - 55	, -03	Sample ID: 13043 AA -	02
		Othe	r Sampling	Information:		,	
Finished Basement, Crawl Space, Unfinished Basement	ware work	Finished Basement, Crawl Space, Unfinished Basement	ware how	Finished Basement, Crawl Space, Unfinished Basement	Warehorse	Direction from Building:	7
Floor Slab Thickness:	1411	Floor Slab Thickness:	^5.5"	Floor Slab Thickness:	~5,5"	Distance from Building:	~ 5 [']
Potential Vapor Entry Points:		Potential Vapor Entry Points:	1 15/601/	Potential Vapor Entry Points:		Distance from Roadway:	-5001
Floor Surface:		Floor Surface:	Conacte	Floor Surface:	concrete	Ground Surface:	Shouli
Noticable Odor:	na	Noticable Odor:	ha	Noticable Odor:	na	Noticable Odor:	None
PID Reading (ppb):	264.	PID Reading (ppb):	1 0 .	PID Reading (ppb):	570.	PID Reading (ppb):	
Intake Depth/Height	, /	Intake Depth/Height:	1	Intake Depth/Height:	~7"	Intake Height Above Ground Surface:	~3'
Helium Test Conducted? Breakthrough %	Yes,-1200pp	Helium Test Conducted?		Helium Test Conducted?	1 1/2/2/3	Intake Tubing Used?	17
Comments/Location	n Sketch:			•			



		INDOOR	AIR SAMF	PLING RECORE			·
ect Name:	CIA	Client:	NYSO	EC	Location ID	Structure L	
ect Number: 3	(120921	Collector:	Branda	Newm_	Date: <u>0</u>)	-17-2010	
		SUMMA C	anister Red	cord Information:			
INDOOR AIR SA	MPLE	INDOOR AIR S	AMPLE	\ INDOOR AIR S	AMPLE	ASSOCIATED A	MBIENT
Flow Regulator No:	392	Flow Regulator No:	337	Flow Regulator No:		Flow Regulator No:	68
Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):	
Canister Serial No:	420	Canister Serial No:	465	Canister Serial No:		Canister Serial No:	326
Start Date/Time:	12:33	Start Date/Time:	13:57	Start Date/Time:		Start Date/Time:	01-12-10 13:46
Start Pressure ("Hg):	->9	Start Pressure ("Hg):	-25	Start Pressure ("Ng):		Start Pressure ("Hg):	-31-30
Stop Date/Time:	2/18/10	Stop Date/Time:	12:57	Stop Date/Time:		Stop Date/Time:	12:46
Stop Pressure ("Hg):	`4	Stop Pressure ("Hg):	<7	Stop Pressure ("Hg):		Stop Pressure ("Hg):	70
ample ID: Sample ID: Sample ID: Sample ID: 30043V - TA - 01 30043V - AA - 01							
1300 130 27	-U#	10.0.00					
(300 130 JA	-07		r Sampling	Information:	· · · · · · · · · · · · · · · · · · ·		
Story/Level:				Information: Story/Level:		Direction from Building:	South
Story/Level:	T	Othe	12+	1		•	
Story/Level:	parelsuse none	Othe Story/Level:	uare- house	Story/Level:		Building: Distance from	South
Story/Level: Room: Potential Vapor Entry	parehouse none	Othe Story/Level: Room: Potential Vapor Entry	uare- house hove	Story/Level: Room: Potential Vapor Entry		Building: Distance from Building: Distance from	South 30 ++.
Story/Level: Room: Potential Vapor Entry Points	marcheuse more more punt-fiz concrete	Story/Level: Room: Potential Vapor Entry Points:	nove paint -fix	Story/Level: Room: Potential Vapor Entry Points:		Distance from Building: Distance from Building: Distance from Roadway:	South 30 ++.
Story/Level: Room: Potential Vapor Entry Points Floor Surface	pareheuse none punt-fiz concock hore	Story/Level: Room: Potential Vapor Entry Points: Floor Surface:	hove hove paint - fix concrete hove	Story/Level: Room: Potential Vapor Entry Points: Floor Surface:	<u> </u>	Building: Distance from Building: Distance from Roadway: Ground Surface: Noticable Odor: PID Reading (ppb):	South 30 ++. 100++ asplatt/3 none 65
Story/Level: Room: Potential Vapor Entry Points Floor Surface Noticable Odor	marcheuse none none punt-fiz concrete hone 388	Story/Level: Room: Potential Vapor Entry Points: Floor Surface: Noticable Odor:	nave- house hove paint-fin concrete none	Story/Level: Room: Potential Vapor Entry Points: Floor Surface: Noticable Odor:		Building: Distance from Building: Distance from Roadway: Ground Surface: Noticable Odor:	South 30 ++. 100++ asplatt/3 none 65



	INDOOR AIR SAMPLING RECORD								
Project Name:	Project Name: NCIA Client: MSDEC Location ID: Structure V								
Project Number: 3/2092127 Collector: Brash Newnas Date: 02-17-2010									
		SUMMA C	anister Red	cord Information:		Duglicate	SS		
SUBSLAB SOIL VAP	OR SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	SUBSLAB SOIL VAP	OR SAMPLE	ASSOCIATED A	VIBIENT		
Flow Regulator No	684	Flow Regulator No:	379	Flow Regulator No:	436	Flow Regulator No:	379		
Flow Rate (mL/min)):	Flow Rate (mL/min):		Flow Rate (mL/min):		Flow Rate (mL/min):			
Canister Serial No	600	Canister Serial No:	101	Canister Serial No:	558	Canister Serial No:	783		
Start Date/Time	11:30	Start Date/Time:	03-17-2010	Start Date/Time:	17:28	Start Date/Time:	11:48		
Start Pressure ("Hg	-28	Start Pressure ("Hg):	-28	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-)8		
Stop Date/Time	2/18/10	Stop Date/Time:	118/16	Stop Date/Time:	218110	Stop Date/Time	2/18/10		
Stop Pressure ("Hg	2	Stop Pressure ("Hg):	< <u>7</u>	Stop Pressure ("Hg):	-8	Stop Pressure ("Hg):	<1		
Sample ID: 30043 V - 55-0	51	Sample ID: 130043 V - 55-0	3	Sample ID: 130043 V - SS -	63				
Other Sampling Information:									
Finished Basemen Crawl Space, Unfinishe Basemer	a None	Finished Basement, Crawl Space, Unfinished Basement	None	Finished Basement, Crawl Space, Unfinished Basement	None	Direction from Building:	None		
Floor Slab Thickness	5: 6 inch	Floor Slab Thickness:	6 just	Floor Slab Thickness:	6 ind	Distance from Builgling:	6 ind		
Potential Vapor Entr	y make	Potential Vapor Entry Points:		Potential Vapor Entry Points:	مدمما ا	Distance from Roadway:	none		
Floor Surface	e: Concrete	Floor Surface:	parat finish	Floor Surface:	Part-film.	Ground/Surface:	rent-filis		
Noticable Odo	r: none	Noticable Odor:	hore	Noticable Odor:	hone	Noticable Odor:	hore		
PID Reading (ppb): 1125	PID Reading (ppb):	5000	PID Reading (ppb):	1650	PID Reading (ppb):	2000		
Intake Depth/Heigh	nt: 8 inch	Intake Depth/Height:	8 ind	Intake Depth/Height:	8 inch	Intake Height Above Ground Surface:			
Helium Test Conducted Breakthrough %	1? Yes 0.04%	Helium Test Conducted?	· M/-	Helium Test Conducted?		Intake Tubing Used?	No		
Comments/Location Sketch: Reachel 100% Holium sufundion in enclosure. DupMade taken at 55-02									
Duplicate to	her at 55-	-02							
·									

511 Congress Street, Portland, ME 04101

APPENDIX B

STRUCTURE INSPECTION/INVENTORY AND QUESTIONNAIRE

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 Phil Muller Brandon New	www. Date/Time Prepared 1.15.10 1736
Preparer's Affiliation MACTEC	Phone No. 207 775 5401
Purpose of Investigation Vapor Infra, NCIA (NYSOEC	ion Investigation
	(ZF # 1300 13A)
1. OCCUPANT:	
Interviewed: (Y) N	
Last Name: Par Kinson First Nam	é: Cleous
Address: 570 Main St.	
County: Nassau	
Home Phone: Office Phone:	516 333-2501
Number of Occupants/persons at this location	Age of Occupants 18 +
2. OWNER OR LANDLORD: (Check if same as oc	cupant)
Interviewed: Y/N	
Last Name:First Name	
Address:	
County:	
Home Phone: Office Phone:	
3. BUILDING CHARACTERISTICS	
Type of Building: (Circle appropriate response)	
Residential School Communication Characterists	mercial/Multi-use

If the property is residential,	, type? (Circle appro	priate response)	N /*		·
Ranch Raised Ranch Cape Cod Duplex Modular	2-Family Split Level Contemporary Apartment House Log Home	3-Family Colonial Mobile Home Townhouses/C Other:	Condos		
If multiple units, how many?	•				
If the property is commercia	l, type?				•
Business Type(s) Voca	tional Auto Sci	4001 / File Ster	age / Swim	ing Facilit	Y / Auto Storage
Does it include residences					
Other characteristics:	•	•			
Number of floors	Ві	uilding age			
Is the building insulated?	Y (N) Ho	ow air tight? Tight	Average Not T	ighť	
4. AIRFLOW		1. A. S.			
Use air current tubes or trace	er smoke to evaluat	e airflow patterns a	nd qualitatively	describe:	•
	•				
Airflow between floors					
			• .		
Airflow near source					
		· · · · · · · · · · · · · · · · · · ·	/	· · · · · · · · · · · · · · · · · · ·	
				,	
Outdoor air infiltration					
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Infiltration into air ducts		•			
- And an addition					
					

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

a. Above grade construction:	wood frame	concrete	stone	brick	Concrete	- block
b. Basement type:	full	crawlspace	slab	other		
c. Basement floor:	concrete	dirt	stone	other		
d. Basement floor:	uncovered	covered	covered wit	h	· · · · ·	
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 fin	ished		
j. Sump present?	Y/N	Floor d	rain o	o. How o	fstairs	
k. Water in sump? Y/N	/ not applicable					
sasement/Lowest level depth below	orađe•	(feet)	•			
						•
	NA.		· · · · · · · · · · · · · · · · · · ·			
. HEATING, VENTING and AIF	R CONDITION	NG (Circle all	that apply)			
Type of heating system(s) used in th			· / /	arv)		•
Hot air circulation Space Heaters	Heat pump Stream radiat	Hot ion Radi	water baseboar ant floor	d		
Electric baseboard	Wood stove	Outd	loor wood boile	er Other_		
The primary type of fuel used is:						
Natural Gas Electric Wood	Fuel Oil Propane Coal	Kero Sola	osene r			
Domestic hot water tank fueled by:		gas	<u> </u>			
Boiler/furnace located in: Base	ment Outd	oors Mai	n Floor	Other	unknown	
Air conditioning:	ral Air Wind	low units Ope	n Windows	None		

	Are	there	air	distribution	ducts	present?
--	-----	-------	-----	--------------	-------	----------

h. Have cleaning products been used recently?

i. Have cosmetic products been used recently?



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. 7. OCCUPANCY Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage) Level Basement 1st Floor 2nd Floor 3rd Floor 4th Floor 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY a. Is there an attached garage? b. Does the garage have a separate heating unit? c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) d. Has the building ever had a fire? Y/N When? e. Is a kerosene or unvented gas space heater present? Where? f. Is there a workshop or hobby/craft area? Where & Type? __ How frequently? _____ g. Is there smoking in the building?

When & Type?

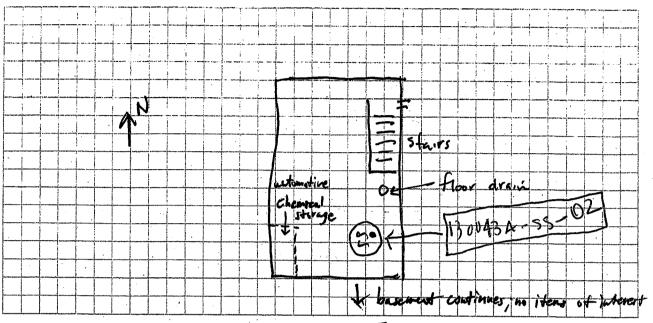
When & Type? _____

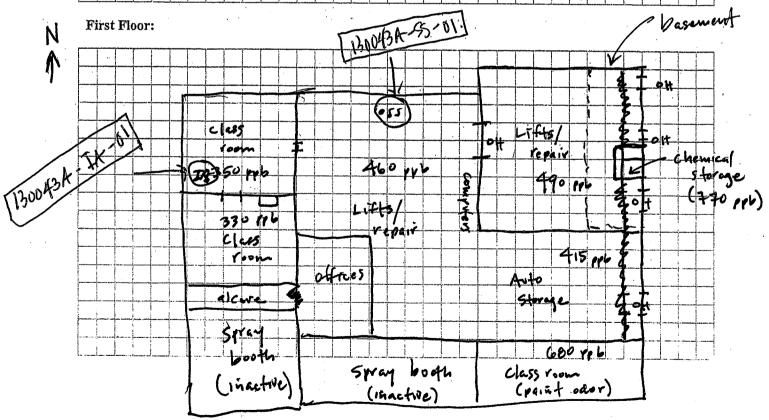
j. Has painting/staining been done in the last 6 months?	Where & When?
k. Is there new carpet, drapes or other textiles?	Y/ Where & When?
I. Have air fresheners been used recently?	N When & Type?
m. Is there a kitchen exhaust fan?	N If yes, where vented? outside
n. Is there a bathroom exhaust fan?	Y/N If yes, where vented?
o. Is there a clothes dryer?	Y/ If yes, is it vented outside? Y/N
p. Has there been a pesticide application?	Y / When & Type?
Are there odors in the building? If yes, please describe:	ØN
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or boiler mechanic, pesticide application, cosmetologist	N auto body shop, painting, fuel oil delivery,
If yes, what types of solvents are used?	432
If yes, are their clothes washed at work? Do any of the building occupants regularly use or work at a response)	Y/N a dry-cleaning service? (Circle appropriate
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. Is the system active or passive? Active/Passive	re? Y/N Date of Installation:
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Drive	en Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Leac	h Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill resident	ial emergency)
a. Provide reasons why relocation is recommended:	NA
b. Residents choose to: remain in home relocate to fi	riends/family relocate to hotel/motel
c. Responsibility for costs associated with reimburseme	ent explained? Y/N
d. Relocation package provided and explained to resid	ents? Y/N

11. FLOOR PLANS

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

Basement:

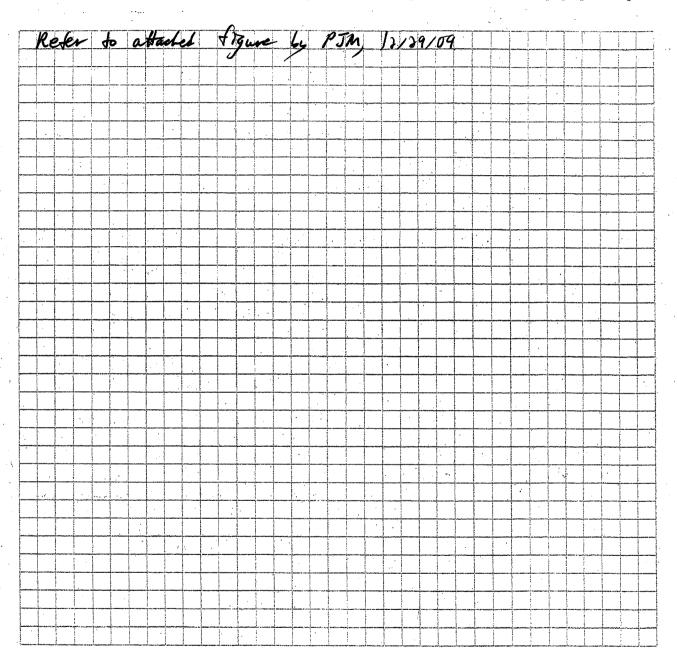




12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:	71	6 RAE	
	1 4		

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 ** <u>Y / N</u>
Chem	Silicon Gasket +					
u	Sealant Blench					
ч	Pinesol					
u ·	glass cleaner			150 propy alcohol	700	
u	degreaser					.
j.	brake cleaning fluid					
Chem. Storage	Bathroon cleaner					
Basement	Throttle Budy Clear	er	Vo	tolvene	400	
11	Brake + Parts Cleaner		UO	Acetone		
	Motor Oil		U 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.

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107 Audubon Road, Bldg. 2, Suite 301 Wakefield, MA 01880				12 - 29 - 1	·9
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		1941年 - 1945年 -	DATE		
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Hali St.	-				
一一一点,这一一点一点,这一点,只要点点,因为一点,看这一点,一点一切,第一点,我们也没有一个一部人,我们可能看到了,请问你说话,这一是不是严格的人。事实不是					
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testing Contact is Lance Turkly Maso Chris Ransley (603) 924 - 4100 at 1	~. νπ (5) Δ.// μ &<<	2)	ocolor=	of obe	4 - 40
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SS- proposed sub- Stab soil Mapor Sam	opting_po			man de compressiones de la compression de la com	

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 Phil Muller	- Brandon New	uan Date/Time Prepare	d 2.5.10/1830
Preparer's Affiliation HAC	TEC	Phone No. 207	775 5401
Purpose of Investigation Var	or Tutrusion YSDEC SITE #	Investigation	
1. OCCUPANT:	terview	[30043A]	
Interviewed: Y/N			
Last Name:	First Name:		
Address:			·
County:			
Home Phone:	Office Phone:		
Number of Occupants/persons at to 2. OWNER OR LANDLORD: (
Interviewed: Y/N			
Last Name:	First Name:		
Address:		-1.	
County:			
Home Phone:	Office Phone: _		
3. BUILDING CHARACTERIS	TICS		
Type of Building: (Circle approp	riate response)		
	chool Comme	ercial/Multi-use	

If the property is residentia	al, type? (Circle appropri	ate response)	
Ranch Raised Ranch Cape Cod Duplex Modular	2-Family Split Level Contemporary Apartment House Log Home	3-Family Colonial Mobile Home Townhouses/Condos Other:	
If multiple units, how many	y?		
If the property is commercial			,
Business Type(s)	iaf T Swim	(Swimming Poo	•1)
		If yes, how many?	
Other characteristics:	·		
Number of floors	Build	ling age	
Is the building insulated?	Y N How	air tight? Tight Average/ No	ot Tight .
i resource			
4. AIRFLOW			
Use air current tubes or tra	cer smoke to evaluate a	irflow patterns and qualitativ	ely describe:
Airflow between floors	NA		
	· · · · · · · · · · · · · · · · · · ·		
Airflow near source			
			•
Outdoor air infiltration			
Infiltration into air ducts			

a. Above grade construction:	wood frame	concrete	stone	brick (Concrete	Hock
b. Basement type:	full	crawlspace	slab	other_	none	
c. Basement floor:	concrete	dirt	stone	other _	NA	
d. Basement floor: N/K	uncovered	covered	covered with	1	· · ·	• .
e. Concrete floor:	unsealed	sealed	sealed with			
f. Foundation walls:	poured	block	stone	other _	• •	
g. Foundation walls:	insealed	sealed	sealed with_	*		
h. The basement is: 1/K	wet	damp	dry	moldy	and the second second	
i. The basement is: \\ \mathcal{N} \/\mathcal{A}	finished	unfinished	partially fini	shed		
. Sump present? N/A	Y/N		. •			
1- 337-4	(/	r i				
k. Water in sump? Y/N sement/Lowest level depth below entify potential soil vapor entry p	• .			y ports, d	rains)	
sement/Lowest level depth below ntify potential soil vapor entry p	grade:			y ports, di	rains)	
ement/Lowest level depth below	grade:			y ports, d	rains)	
ement/Lowest level depth below ntify potential soil vapor entry p	grade:			y ports, d	rains)	
sement/Lowest level depth below ntify potential soil vapor entry p Cracks , 山间光电子	grade:	ximate size (e.g	g., cracks, utilit	y ports, d	rains)	
ement/Lowest level depth below ntify potential soil vapor entry p	grade: oints and appro	ximate size (e.g	g., cracks, utilit		rains)	
sement/Lowest level depth below entify potential soil vapor entry p	grade: oints and appro	ING (Circle all recle all that app	g., cracks, utilit	ary)	rains)	
HEATING, VENTING and All thot air circulation Space Heaters	grade: oints and appro R CONDITION his building: (cir Heat pump Stream radiat	ING (Circle all recle all that app	that apply) ly – note prima water baseboard ant floor	ary)	rains)	
HEATING, VENTING and Alle pe of heating system(s) used in the Hot air circulation Space Heaters Electric baseboard	grade: oints and appro R CONDITION his building: (cir Heat pump Stream radiat	ING (Circle all recle all that app Hot son Radi	that apply) ly – note prima water baseboard ant floor loor wood boile	ary)	rains)	

Outdoors

Basement

Main Floor

Window units Open Windows

Other

None

Boiler/furnace located in:

Air conditioning:

Are	there	air	distribution	ducte	nrecent?
$\Delta \mathbf{x} \mathbf{v}$	uicic	44.4	uisti ibutioii	uucts	hreseur:



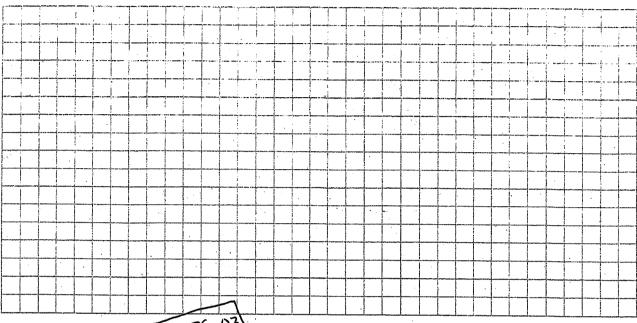
diagram.			
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. OCCUPANCY			
s basement/lowest level occupied? Full-time	Occasionally	v Seldom	Almost Never
Level General Use of Each Floor (e.g.	., familyroom, bed	room, laundry,	workshop, storage)
Basement N/A		,	
st Floor Swimming 7001	+ faciliti	د5	
nd Floor	· · ·		
rd Floor			
th Floor			
rioor		**************************************	
. FACTORS THAT MAY INFLUENCE IND	OOR AIR OUALI	TY	
a. Is there an attached garage?		CORS (The obliger
	140		240 Carlo
b. Does the garage have a separate heating u		Y/N/MA)	
c. Are petroleum-powered machines or vehic stored in the garage (e.g., lawnmower, atv,		Y/N/NA) Please speci	fy
d. Has the building ever had a fire?		Y/Ø Whe	en?
e. Is a kerosene or unvented gas space heater	present?	Y Whe	ere?
f. Is there a workshop or hobby/craft area?	Y (Where & Ty	/pe?
g. Is there smoking in the building?	Y (How freque	ntly?
h. Have cleaning products been used recently	y?	N When & Ty	pe? daily

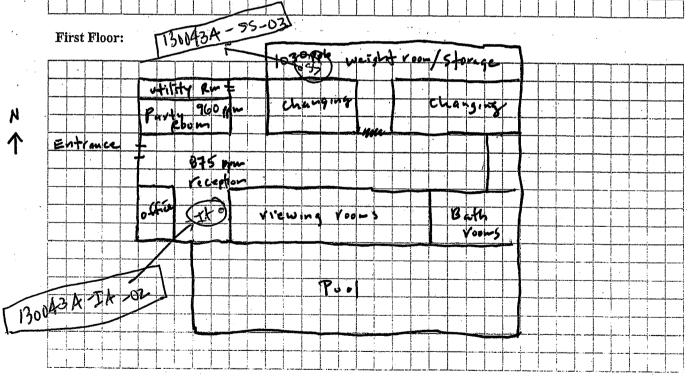
j. Has painting/staining been done in the last 6 months?	(V) N Where & When? Swim (L)
k. Is there new carpet, drapes or other textiles?	Y/N Where & When?
l. Have air fresheners been used recently?	N When & Type?
m. Is there a kitchen exhaust fan?	N If yes, where vented?
n. Is there a bathroom exhaust fan?	N If yes, where vented?
o. Is there a clothes dryer?	YN If yes, is it vented outside? Y/N
p. Has there been a pesticide application?	Y / When & Type?
Are there odors in the building? If yes, please describe: (h(ovine)	⊘ N
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or boiler mechanic, pesticide application, cosmetologist	Y/N Unknown auto body shop, painting, fuel oil delivery,
If yes, what types of solvents are used?	unknown
If yes, are their clothes washed at work?	Y/N
Do any of the building occupants regularly use or work at response) Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less)	No Unknown
Yes, work at a dry-cleaning service	
Is there a radon mitigation system for the building/structu Is the system active or passive? Active/Passive	re? Y/NDate of Installation:
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Driv	en Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Lead	ch Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill resident	
a. Provide reasons why relocation is recommended:	N/A-
b. Residents choose to: remain in home relocate to f	riends/family relocate to hotel/motel
c. Responsibility for costs associated with reimbursem	ent explained? Y/N
d. Relocation package provided and explained to resid	lents? Y/N

11. FLOOR PLANS

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

Basement:





12. OUTDOOR PLOT

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

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

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13 PRODUCT INVENTORY FOR

Make & Model of field instrument used:	
	•
List specific products found in the residence tha	t have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
wirght	A.V-freshener		UO	Accetone		N
((Toilet Frisherer		Jo .	dipropylely col		N
	Floor Tile Adhosne					
						:
<u> </u>						
·				1		
•						
····		 				
		-				
					 	

^{*} 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.

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 Br	anda Ne	nna	Date/Time F	Prepared 2 /	16/10	<u>8</u> : 25
Preparer's Affiliation	MARTER	<u></u>	Phone No	207-77	5-5	401
Purpose of Investigation	Vagor:	Intrusion	Investig	nation		
Purpose of Investigation 1. OCCUPANT:	(NYSDE	S SITE	1300518)			
Interviewed: 🕢/ N						
Last Name: New	ell	_ First Name: _	Randy			
Address:				•		4 - 4
County: Nassau	_		•			
Home Phone:	1.1	fice Phone:	516-997	2-552	>	
Number of Occupants/p	ersons at this locat	ion <u>3</u>	Age of Occupant	s <u>40 —</u>	50	·
2. OWNER OR LAND	OLORD: (Check i	f same as occup	ant)			
Interviewed: Y/						
Last Name: Deg	enhardt	_First Name:	Richard		_	
Last Name: Deg Address:	1 6			1	· .	
County:						•
Home Phone:	<u> </u>	office Phone:				
3. BUILDING CHAR.	ACTERISTICS			:		
Type of Building: (Cir	cle appropriate res	ponse)				
Residential Industrial	School Church	Commer Other:	cial/Multi-use			

If the property is residential	l, type? (Circle appropria	ate response)		
Ranch Raised Ranch Cape Cod Duplex	2-Family Split Level Contemporary Apartment House	3-Family Colonial Mobile Home Townhouses/Condo	Ya a	
Modular	Log Home	Other:		w.
If multiple units, how many	?			
If the property is commercia	*			·
Business Type(s)	oto engravin	9		
Does it include residences	s (i.e., multi-use)? Y	If yes, how	many?	
Other characteristics:	er Standard Berger Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard S Standard Standard St Standard Standard St	•	• •	
Number of floors 3	Build	ing age un 4		
Is the building insulated?	Y/N How	air tight? Tight / Ave	rage (Not Tight)	• •
4. AIRFLOW				
Use air current tubes or trac	er smoke to evaluate ai	rflow natterns and a	ralitativaly dagariba	
Airflow between floors	MIA			
Airflow near source				
			<i>I</i>	
	9	en en en en en en en en en en en en en e	•	
Outdoor air infiltration				
Infiltration into air ducts	i.			

5. BASEMENT AND CONSTRU	CTION CHARA	CTERISTICS	(Circle all that	apply)
a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other
c. Basement floor:	concrete	dirt	stone	other
d. Basement floor:	uncovered	covered	covered wit	h
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		moldy
i. The basement is:	finished	unfinished	partially fin	ished
j. Sump present?	Y 🕥			
k. Water in sump? Y/	N / not applicable	•		
Basement/Lowest level depth below	v grade: <u>6-7</u>	_(feet)		
Cracks utilities the			., cracks, utili	ty ports, drains)
3,477,100,416		- SCHOOL		
6. HEATING, VENTING and AI	R CONDITION	NG (Circle all t	hat apply)	
Type of heating system(s) used in t	this building: (cir	cle all that app	ly – note prim	ary)
Hot air circulation is face Space Heaters Electric baseboard	Heat pump Stream radiat Wood stove	ion Radi	water baseboar ant floor oor wood boile	er Other
The primary type of fuel used is:				e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l
Natural Gas Electric Wood	Fuel Oil Propane Coal	Kero Sola	• •	
Domestic hot water tank fueled by	: <u>u</u> 4		· ·	
Boiler/furnace located in:	sement Outd	oors Main	ı Floor	Other
Air conditioning:				

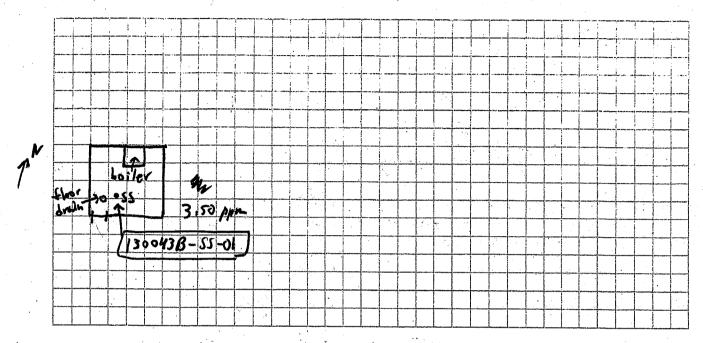
Are there air distribution ducts present? N	
Describe the supply and cold air return ductwork, and its there is a cold air return and the tightness of duct joints.	
diagram.	
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
7. OCCUPANCY	
Is basement/lowest level occupied? Full-time Occ	asionally Seldom Almost Never
Level General Use of Each Floor (e.g., familyro	om, bedroom, laundry, workshop, storage)
Basement hone	
1st Floor offices nautacturing	(Janet
2nd Floor residence	(devolupnest)
3 rd Floor	
4 th Floor	n de la composition de la composition de la composition de la composition de la composition de la composition de La composition de la
11001	
8. FACTORS THAT MAY INFLUENCE INDOOR AIR	QUALITY
a. Is there an attached garage?	Y 1
b. Does the garage have a separate heating unit?	Y/N/1
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)	Y/N/NA Please specify
d. Has the building ever had a fire?	(Y) N When? nuk. I have than a deca
e. Is a kerosene or unvented gas space heater present?	Y Where?
f. Is there a workshop or hobby/craft area?	N Where & Type?
g. Is there smoking in the building?	Y/ N How frequently?
h. Have cleaning products been used recently?	ON When & Type? Student bothmon chemicals
i. Have cosmetic products been used recently?	Y/M When & Type?

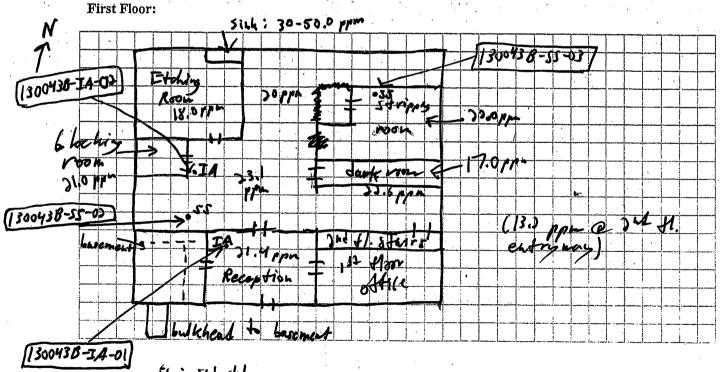
j. Has painting/staining been done in the last 6 months?	Y/W Where & When?
k. Is there new carpet, drapes or other textiles?	Y (N) Where & When?
l. Have air fresheners been used recently?	Y (N) When & Type?
m. Is there a kitchen exhaust fan?	Y (If yes, where vented?
n. Is there a bathroom exhaust fan?	N If yes, where vented?
o. Is there a clothes dryer?	Y / N If yes, is it vented outside? Y / N
p. Has there been a pesticide application?	Y /N When & Type?
Are there odors in the building? If yes, please describe: phits decoloping	a gent
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or boiler mechanic, pesticide application, cosmetologist	Y / D auto body shop, painting, fuel oil delivery,
If yes, what types of solvents are used?	N/4
If yes, are their clothes washed at work?	Y/N N/A
Do any of the building occupants regularly use or work at response) Yes, use dry-cleaning regularly (weekly)	No
Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	Unknown
Is there a radon mitigation system for the building/structure. Is the system active or passive? Active/Passive	
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Drive	en Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Leac	h Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill resident	ial emergency)
a. Provide reasons why relocation is recommended:	NA
b. Residents choose to: remain in home relocate to fi	riends/family relocate to hotel/motel
c. Responsibility for costs associated with reimburseme	
	ent explained? Y/N

11. FLOOR PLANS

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

Basement:





SS: 546 246
IA: indoor air

12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:	PAB	RAE	

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
Etching	ing Etch Additize	594	0/40	Section 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37.0	BI
(())	Nitric Acid	55901	V	Nitra Acid	24.1	B
of chira	Suda Ash	50 16.	00	Moder ash	7435. N	<i>B3</i>
un	Magnifice Vardger	5501	U	bylengethyl benzene czeb-	8,46	84
Etdy	Powderel Gan Archic	5013	U	gun arabic	J0, 0	B5
211. doly		194	V	gasilae	33.9	_
Dark	Developer	5941	4/10	see phb	17.3	B6
un	Fixer	594	V/40	see photo	17.7	87
				70 fr		
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			-			
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^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

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

SS - proposed Sub-slab Soil vapor sampling location

IA - project stictool air campling location

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 Branks Neuman	Date/Time Prepared	16/10	13:15
Preparer's Affiliation MAC7EC	Phone No. 307	-775	-5401
Purpose of Investigation Vapor Justrusion (NYSDEC JITE +	Investigation		·
(NYSDEL SITE +	# 300 93 F)	•	* * * * * * * * * * * * * * * * * * *
Interviewed: Q / N			
Last Name: Rubenstein First Name:	Joe		
Address: 68 Kinkel St.		<u> </u>	
County: Nassau			
Home Phone: Office Phone: 5	16 - 333 - 2130		
Number of Occupants/persons at this location	Age of Occupants		
2. OWNER OR LANDLORD: (Check if same as occupa			
Interviewed N			
Last Name: First Name:			
Address:			
County:		•	
Home Phone: Office Phone:			
3. BUILDING CHARACTERISTICS			
Type of Building: (Circle appropriate response)			
Residential School Commer Industrial Church Other:	cial/Multi-use		

If the property is residenti	al, type? (Circle approp	fiate response)	
Ranch Raised Ranch Cape Cod Duplex Modular	2-Family Split Level Contemporary Apartment House Log Home	3-Family Colonial Mobile Home Townhouses/Condos Other:	
If multiple units, how man	y?	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	
If the property is commerc	ial, type?		
Business Type(s)	rap wedal salva	<u>je</u>	
		(N) If yes, how n	nany?
Other characteristics:	and soll		
Number of floors 3	story office) Bui	lding age 1405	
Is the building insulated?	Y M	w air tight? Tight / Avera	go/ Not Tight
4. AIRFLOW			
Use air current tubes or tra	icer smoke to evaluate	airflow patterns and qua	alitatively describe:
Airflow between floors	V/A		
Airflow near source			
Outdoor air infiltration			
Infiltration into air ducts			
		· · · · · · · · · · · · · · · · · · ·	

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

			•		
a. Above grade const	ruction:	wood frame	concrete	stone	brick
b. Basement type:	MA	full	crawlspace	slab	other
c. Basement floor:	MA	concrete	dirt	stone	other
d. Basement floor:	NIA	uncovered	covered	covered with	n
e. Concrete floor:		insealed	sealed	sealed with	
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:	W#	finished	unfinished	partially fin	ished
j. Sump present?	MA	Y/N			
k. Water in sump?	Y/N	/not applicable	•		
Basement/Lowest level d	• •			e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	
cracks (small)					

6. HEATING, VENTIN	G and AII	R CONDITION	ING (Circle a	ll that apply)	
Type of heating system(s) used in th	is building: (ci	rcle all that ap	oply – note prim	ary)
Hot air circulation Space Heaters Electric baseboard		Heat pump Stream radia Wood stove	tion Ra	ot water baseboard diant floor atdoor wood boile	
The primary type of fuel	used is:				
Natural Gas Electric Wood		Fuel Oil Propane Coal		rosene lar	
Domestic hot water tank	fueled by:	, t		· · · · · · · · · · · · · · · · · · ·	
Boiler/furnace located in	: Base	ment Out	doors 🐠	ain Floor	Other
Air conditioning:	Cent	ral Air Win	idow units Or	en Windows	None

Are there air distribution ducts present?



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 joint diagram.	s. Indicate the locations on the floor plan
	Programme Angelija in Luchwin 4.5
7. OCCUPANCY	
Is basement/lowest level occupied? Full-time (Occasionally Seldom Almost Never
Level General Use of Each Floor (e.g., famil-	yroom, bedroom, laundry, workshop, storage)
Basement	
1st Floor Storage (scrap metal)	en en en en en en en en en en en en en e
1st Floor Storage (scrap metal) 2nd Floor Storage (office - 5hell)	
3 rd Floor	
4 th Floor	
8. FACTORS THAT MAY INFLUENCE INDOOR A	IR QUALITY
a. Is there an attached garage?	Y/ ©
b. Does the garage have a separate heating unit?	Y/N/ %
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)	Y / N /(NA) Please specify
d. Has the building ever had a fire?	Y/ When?
e. Is a kerosene or unvented gas space heater presen	t? Y 🔊 Where?
f. Is there a workshop or hobby/craft area?	Y/ Where & Type?
g. Is there smoking in the building?	N How frequently?
h. Have cleaning products been used recently?	Y/Ø When & Type?
i. Have cosmetic products been used recently?	Y When & Type?

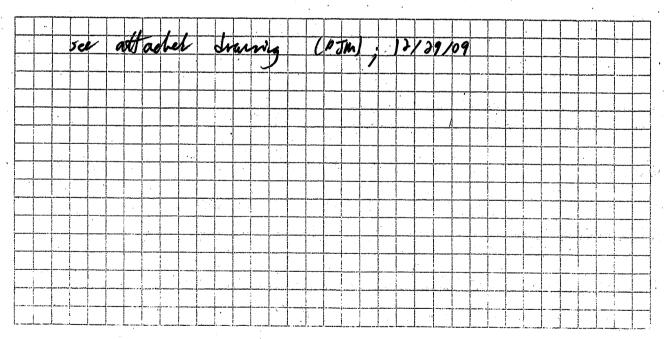
	j. Has painting/staining been done in the last 6 months?	$Y \setminus OD$	Where & When?
	k. Is there new carpet, drapes or other textiles?	Y /🕥	Where & When?
	l. Have air fresheners been used recently?	Y 🐧	When & Type?
, '	m. Is there a kitchen exhaust fan?	Y /	If yes, where vented?
	n. Is there a bathroom exhaust fan?	Y / 🕥	If yes, where vented?
	o. Is there a clothes dryer?	Y 🔕	If yes, is it vented outside? Y/N
	p. Has there been a pesticide application?	Y/🚱	When & Type?
•	Are there odors in the building? If yes, please describe:	Y / 🛐	
	Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or a boiler mechanic, pesticide application, cosmetologist	Y / 🛭 auto body	
	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 response)	ı dry-cles	aning service? (Circle appropriate
	Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service		Unknown
	Is there a radon mitigation system for the building/structur Is the system active or passive? Active/Passive	e? Y (N	Date of Installation:
	9. WATER AND SEWAGE	•	
	Water Supply: Public Water Drilled Well Drive	n Well .	Dug Well Other:
•	Sewage Disposal: Public Sewer Septic Tank Leach	n Field	Dry Well Other:
	10. RELOCATION INFORMATION (for oil spill residenti		gency)
	a. Provide reasons why relocation is recommended:	V/A	
	b. Residents choose to: remain in home relocate to fr	iends/fan	relocate to hotel/motel
· .	c. Responsibility for costs associated with reimburseme	ent explai	ined? Y/N

11. FLOOR PLANS

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

Basement: howe

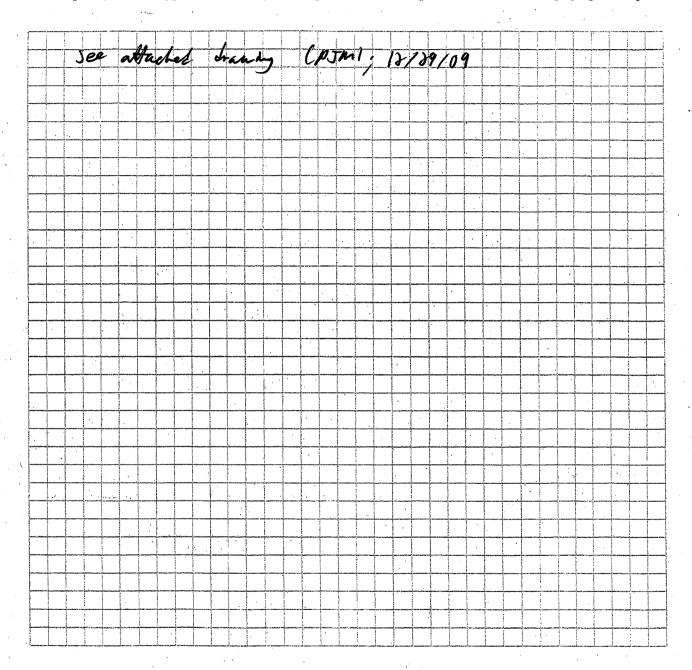
First Floor:



12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make d	SŁ.	Model	of	field	instrument	used:	

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
Wairebouse	Paint	55gml	U	Potroleum Distillates	248	Y
u.,	011	spill	M/A		251	1
j, es	butteries (spad)	W/A	D		242	1
u co	diesel (jump)	_			371	Y
vot nece	savily relevant hem	· s.tel	to be t	ranscriped later into logbook		
			•			
*						
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s					

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^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)
** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.



MACTEC Engineering and Consulting, Inc. 107 Audubon Road, Bldg. 2, Suite 301 Wakefield, MA 01880

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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	ndor Neum	an	Date/Time Pre	epared _	16/10
Preparer's Affiliation	hactec		_ Phone No 3	77-775	5401
Purpose of Investigation_	Vagor Inter	usion Inc	estigation		
1. OCCUPANT:	(NYSUEC S	IE # 73	0043K		
Interviewed: 👌 / N					
Last Name: Mare	-5C0 Fi	irst Name:	Tom		
Address: 62					•
County: Nossan					
Home Phone:	Office	Phone: 5/	6-333-	1086	
Number of Occupants/pers	sons at this location	12 Ag	ge of Occupants	20-5	70
2. OWNER OR LANDL				•	
Interviewed: 💇/ N	u.e.				
Last Name:	Fir	rst Name:			<u>.</u> ;
Address:					
County:					
Home Phone:	Office	e Phone:		<u> </u>	
3. BUILDING CHARAC	CTERISTICS				
Type of Building: (Circle	appropriate respons	se)			
Residential Industrial	School Church	Commercia Other:	al/Multi-use		

If the property is residential, type? (Circle appropriate response)
Ranch 2-Family 3-Family Raised Ranch Split Level Colonial Cape Cod Contemporary Mobile Home Duplex Apartment House Townhouses/Condos Modular Log Home Other:
If multiple units, how many?
If the property is commercial, type?
Business Type(s) Showrook & office
Does it include residences (i.e., multi-use)? Y/W If yes, how many?
Other characteristics:
Number of floors Building age 60 ys
Is the building insulated (Y) N How air tight? Tight / (verage / Not Tight
4. AIRFLOW
Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:
Airflow between floors V/A
Airflow near source
Outdoor air infiltration
Infiltration into air ducts

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

•	•			•
a. Above grade construction	wood frame	concrete	stone	brick
b. Basement type: M/A	full	crawlspace	slab	other
c. Basement floor:	concrete	dirt	stone	other
d. Basement floor: M/A	uncovered	covered	covered wi	th
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 fir	nished
j. Sump present? MA	Y/N			1
k. Water in sump?	Y/N/not applicable	•	•	
Basement/Lowest level depth be	elow grade:	_(feet)	•	
			• ,	
Identify potential soil vapor ent	try points and appro	oximate size (e.g	g., cracks, util	ity ports, drains)
cracks willities				
- 100 to 21/11/103				
6. HEATING, VENTING and	AIR CONDITION	ING (Circle all	that apply)	
Type of heating system(s) used	in this building: (cir	cle all that ann	ly – note prin	nary)
Type of mouting system(s) about	in this building. (ch	cie an that app	ry – note prin	uai y)
Hot air circulation	Heat pump	Hot	water baseboa	rd
Space Heaters	Stream radiat		ant floor	
Electric baseboard	Wood stove	Outd	loor wood boi	ler Other
The primary type of fuel used i	s :			
Natural Gas	Fuel Oil	Vore	sene	•
Electric	Propane	Sola		
Wood	Coal	3014		
Domestic hot water tank fueled	• •	· - ·		
		loors Mai	n Floor	Other roof 30
Air conditioning:	Central Air Win	dow units Ope	n Windows	None

Are there air	distribution	ducts	present?
---------------	--------------	-------	----------

Describe the supply and cold there is a cold air return and diagram	air return ducto the tightness of	work, and its duct joints.]	condition vindicate th	where visible, i e locations on t	ncluding whet he floor plan	her	
diagram.			i i	n, ************************************	• .	<i>t</i> ·	
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7. OCCUPANCY	i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la co						
Is basement/lowest level occup	pied? Full-tir	ne Occa	asionally	Seldom	Almost Neve	r .	
Level General Use o	f Each Floor (e	.g., familyro	om, bedroo	om, laundry, w	orkshop, stora	ige)	
Basement			g.				
1st Floor workshy	o shour	von odo	Hes		-		
2 nd Floor					-	· ·	
3 rd Floor			······································			en en en en en en en en en en en en en e	
4 th Floor					-		
8. FACTORS THAT MAY I	NFLUENCE IN	DOOR AIR	QUALITY				
a. Is there an attached gara	ge?			YM			
b. Does the garage have a se	eparate heating	unit?		Y/N/MA			
c. Are petroleum-powered a stored in the garage (e.g.,				Y/N/NA Please specify			
d. Has the building ever ha	d a fire?			Y / When	?	en formation of the second	
e. Is a kerosene or unvented	l gas space heat	er present?	1 + 1	Y/ Where	:?	er al	
f. Is there a workshop or ho	bby/craft area'	?	DA	Where & Type	? behind s	how woom; gr	natte
g. Is there smoking in the b	uilding?		⊘ N	How frequentl	y?	."/ "No	rrsi.
h. Have cleaning products l	peen used recen	tly?	Y / 🗗	When & Type	?	. ·	
i. Have cosmetic products b	een used recen	tly?	Y /	When & Type	?		

ð/N

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 / 🖸 Where & When?
l. Have air fresheners been used recently?	Y/ N When & Type?
m. Is there a kitchen exhaust fan?	Y/ If yes, where vented?
n. Is there a bathroom exhaust fan?	N If yes, where vented?
o. Is there a clothes dryer?	Y 🛍 If yes, is it vented outside? Y/N
p. Has there been a pesticide application?	Y / N When & Type?
Are there odors in the building? If yes, please describe:	Y/ ©
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or boiler mechanic, pesticide application, cosmetologist If yes, what types of solvents are used?	Y/ auto body shop, painting, fuel oil delivery,
if yes, what types of solvenes are used:	
If yes, are their clothes washed at work?	Y/N M/2
Do any of the building occupants regularly use or work at response)	a dry-cleaning service? (Circle appropriate
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/structu Is the system active or passive? Active/Passive	re? Y/ Date of Installation:
9. WATER AND SEWAGE	
Water Supply: Qublic Water Drilled Well Drive	en Well Dug Well Other:
Sewage Disposal: Ublic Sewer Septic Tank Lead	h Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill resident	tial emergency)
a. Provide reasons why relocation is recommended:	MA
b. Residents choose to: remain in home relocate to f	riends/family relocate to hotel/motel
c. Responsibility for costs associated with reimbursem	ent explained? Y/N
d. Relocation package provided and explained to resid	ents? Y/N

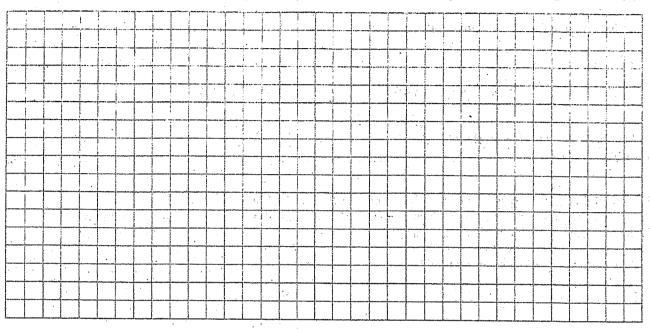
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11. FLOOR PLANS

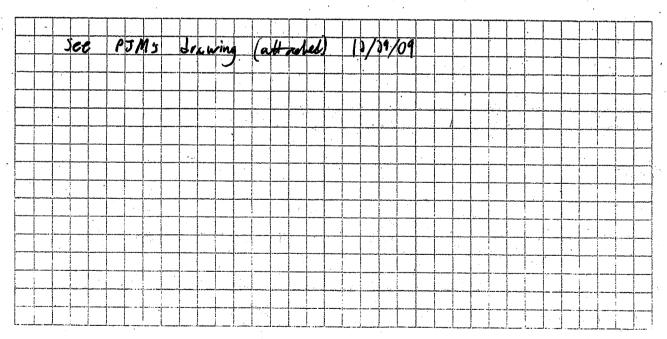
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

No bose not



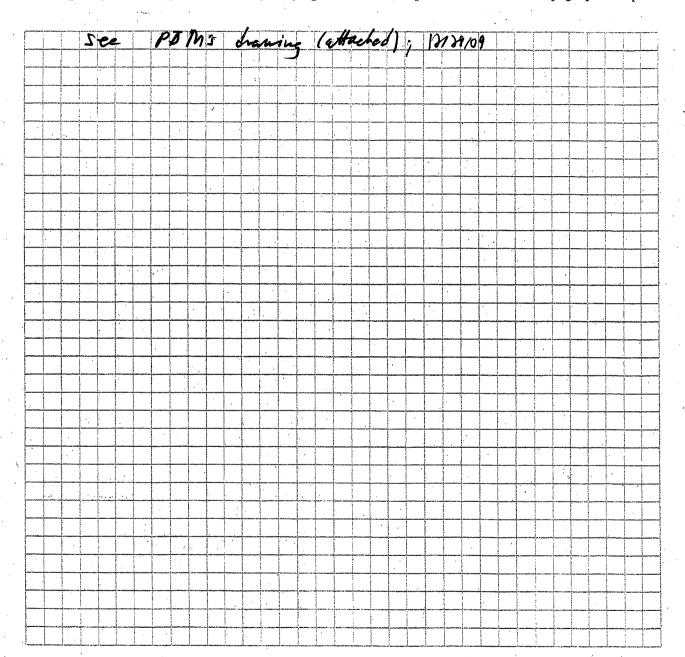
First Floor:



12. OUTDOOR PLOT

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

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:	Ph	6 R	a e	

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

hole: asserted authorive products the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
Storage	Ristolan	lean	U	acchae, bylene	Unid	N
11.11	Ristolan Brake Shot With lithing great	Can	U.	digity lot glycal drictly los glycal polyality lose glycal ed lizactish potolem postaplan	ks N2	Y
44	Whole lithing great	1 cm	U	liquestal potalem pos haptan	4.17	4
lun	woto) cary	V6	hales all	11/1	11
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^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

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

	JOB NO. NCIA SHEET OF
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	was unable to ther office space in the
c. Hiern	section of the building A sub-slab
road Napor	sample should be collected in that
space, i	t ross ble
IA - proposed	indoor air sampling location
SS - proposed	gulo-slab soil vaper sampling location.
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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 Brando No	Euman	Date/Time F	Prepared D //	16/10 2:45	
Preparer's Affiliation MACTE		Phone No	707-77	5-5401	
Purpose of Investigation Vopov	Intrasia I	avertiget	>		
Purpose of Investigation Voyov 1. OCCUPANT:	SDEC SITE	# 1300434	d		
Interviewed: N					•
Last Name: Schepper	First Name: _	Charles	>	Consents ing	ir)
Last Name: Schnepper Address: 750 Suna	- Ave l	Vestloury	11590		
County: Nassau			. 4		
Home Phone:	Office Phone:				
Number of Occupants/persons at this lo	ocation O	Age of Occupant	s		
2. OWNER OR LANDLORD: (Che	ck if same as occupa	ant)			
Interviewed: Y N	<i><</i>			· ·	
Last Name:	First Name:			750 Summa A	
Address:			<u> </u>	naryel by	Spiege
County:				Associates	
Home Phone:	Office Phone:				
3. BUILDING CHARACTERISTIC	:S		:		
Type of Building: (Circle appropriate	response)				
Pagidantial School	ol Gomesti	aia1/Multi 1150		•	

Church

If the property is residen	tial, type? (Circle appropri	ate response)	
Ranch	2-Family	3-Family	
Raised Ranch	Split Level	Colonial	
Cape Cod	Contemporary	Mobile Home	
Duplex			
Modular	Apartment House	Townhouses/Condos	
Wiodulai	Log Home	Other:	
If multiple units, how ma	ny?		
If the property is commen	rcial, type?		
Business Type(s)	nove aumently;	formarly EZM medical facility	
		If yes, how many?	
Other characteristics:			
Number of floors 2	- (mostly 1story) uild	ling age <u>1967</u>	
Is the building insulate	d? Y N How	air tight? Tight / Average / Not Tigh	•
4. AIRFLOW			
Use air aurrent tubes on t	wo o o o o o o o o o o o o o o o o o o		***
ese an entient tubes of t	racer smoke to evaluate a	irflow patterns and qualitatively describe:	
	NIA		•
Airflow between floors	· / F		
	<u> </u>		
Airflow near source			
			
•	•		
Outdoor air infiltration			٠.
Outdoor an infiltration			
Infiltration into air ducts			
			
	· · · · · · · · · · · · · · · · · · ·		

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		ACTERISTICS (Circle all that	apply)
BASEMENT AND CONSTRU	CTION CHARA		*	
a. Above grade construction:	wood frame	concrete 5/24	stone	brick
b. Basement type: VA	full	crawlspace	slab	other
c. Basement floor: MA	concrete	dirt	stone	other
d. Basement floor:	uncovered	covered	covered with	patel unk
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
. The basement is:	finished	unfinished	partially finis	shed
. Sump present?	Y/N	•		
c. Water in sump? Y/N	/ not applicable			•
·			•	•
ement/Lowest level depth below	grade:	_(feet)	•	
itify potential soil vapor entry p	grade: •	_(feet) oximate size (e.g.,		
tify potential soil vapor entry p	grade: •	_(feet) oximate size (e.g.,		y ports, drains)
tify potential soil vapor entry p	grade: •	_(feet) oximate size (e.g.,		
tify potential soil vapor entry p Neve visible cr floor draih	grade: 0 oints and appro	_(feet) eximate size (e.g.,	cut section	
tify potential soil vapor entry p Nove in the cr floor drain HEATING, VENTING and AII	grade: 0 oints and appro	_(feet) oximate size (e.g.,	Cut section	us in narchouse
tify potential soil vapor entry p New 195; ble cr floor drain HEATING, VENTING and AII e of heating system(s) used in the	grade: 0 oints and appro	_(feet) oximate size (e.g.,	Cut section	us in narchouse.
HEATING, VENTING and AIR	grade: 0 oints and appro	(feet) Eximate size (e.g.,	cut section at apply) 7—note prima	us in narchouse.
HEATING, VENTING and Alle of heating system(s) used in the Hot air circulation	grade: oints and appro cks (most	(feet) Eximate size (e.g., ING (Circle all the cle all that apply	at apply) - note prima	us in narchouse.
HEATING, VENTING and AIR	grade: 0 oints and appro	ING (Circle all the rele all that apply thot we hadian	cut section at apply) 7—note prima	us in narchouse.
HEATING, VENTING and AIR cof heating system(s) used in the local circulation (affice) Space Heaters (numbered) Electric baseboard	grade: oints and appro cits (most R CONDITION his building: (cir Heat pump Stream radiat	ING (Circle all the rele all that apply thot we hadian	at apply) - note prima ater baseboard at floor	us in narchouse.
HEATING, VENTING and AII e of heating system(s) used in the Space Heaters (numbered Electric baseboard primary type of fuel used is:	grade: oints and appro acks (most R CONDITION tis building: (cir Heat pump Stream radiat Wood stove	(feet) Eximate size (e.g., ING (Circle all the cle all that apply Hot was adding Outdo	at apply) 7 - note prima ater baseboard at floor or wood boiler	us in narchouse.
HEATING, VENTING and AII e of heating system(s) used in the Space Heaters (numbered) Electric baseboard primary type of fuel used is:	grade: oints and appro acks (mast CONDITION as building: (cir Heat pump Stream radiat Wood stove Fuel Oil	(feet) Eximate size (e.g., ING (Circle all the cle all that apply Hot was a control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	at apply) 7 - note prima ater baseboard at floor or wood boiler	ts in narchouse-
HEATING, VENTING and AIR Hot air circulation Space Heaters (numbered) Electric baseboard primary type of fuel used is:	grade: oints and appro acks (most R CONDITION tis building: (cir Heat pump Stream radiat Wood stove	(feet) Eximate size (e.g., ING (Circle all the cle all that apply Hot was adding Outdo	at apply) 7 - note prima ater baseboard at floor or wood boiler	ts in narchouse-

Outdoors

Window units

Basement

Central Air

Main Floor

Open Windows

Other__

None

Boiler/furnace located in:

Air conditioning:

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.

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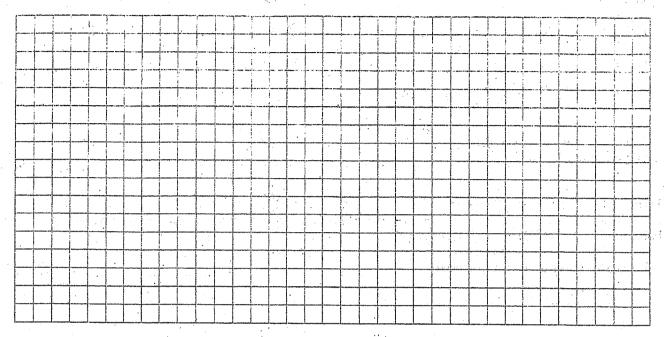
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Is basement/le	owest level occupied?	Full-time	Occasionally	Seldom	Almost Never Curr
<u>Level</u>	General Use of Each	Floor (e.g., fami	yroom, bedroo	om, laundry, wo	rkshop, storage)
Basement					
1 st Floor	narchouse				
2 nd Floor	narehouse 64 kes				
3 rd Floor	The same of the s				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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8. FACTORS	THAT MAY INFLUI	ENCE INDOOR A	IR QUALITY		
a. Is there a	n attached garage?			Y/D	
b. Does the	garage have a separat	e heating unit?		Y/N	
	oleum-powered machin the garage (e.g., lawnn			Y/N/NA Please specify_	
d. Has the l	ouilding ever had a fire	e?	• • •	Y / When?	
e. Is a keros	sene or unvented gas s	pace heater preser	ıt?	Y/ Where	?
f. Is there a	workshop or hobby/c	raft area?	Y /	Where & Type	?
g. Is there s	smoking in the building	; ?	Y/ Ø	How frequently	/?
h. Have cle	aning products been u	sed recently?	Y /🔊	When & Type?)
i. Have cosi	metic products been us	ed recently?	Y 16	When & Type?)

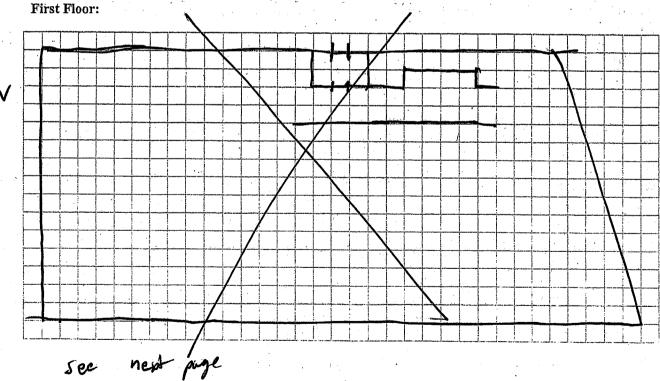
j. Has painting/staining been done in the last 6 months?	Y Where & When?
k. Is there new carpet, drapes or other textiles?	Y/\delta Where & When?
I. Have air fresheners been used recently?	Y / 🗭 When & Type?
m. Is there a kitchen exhaust fan?	Y/ D If yes, where vented?
n. Is there a bathroom exhaust fan?	Ø/N If yes, where vented? №
o. Is there a clothes dryer?	Y A If yes, is it vented outside? Y/N
p. Has there been a pesticide application?	Y N When & Type?
Are there odors in the building? If yes, please describe:	Y /
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or a boiler mechanic, pesticide application, cosmetologist	Y / 🕠 auto body shop, painting, fuel oil delivery,
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 response)	dry-cleaning service? (Circle appropriate
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/structur Is the system active or passive? Active/Passive	e? Y/ Date of Installation:
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Drive	n Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Leach	n Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill resident	ial emergency)
a. Provide reasons why relocation is recommended:	YIA
b. Residents choose to: remain in home relocate to fr	iends/family relocate to hotel/motel
c. Responsibility for costs associated with reimburseme	ent explained? Y/N
d. Relocation package provided and explained to reside	ents? Y/N

11. FLOOR PLANS

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

Basement: Nohe

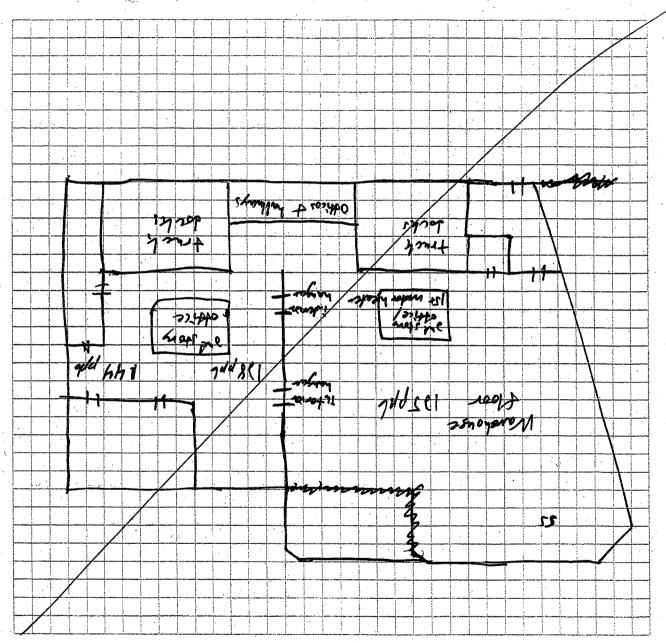




12. OUTDOOR PLOT

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

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



again, see attached; it's difficult to key track of large layout

13. PRODUCT INVENTORY FORM

Make & Model	of field instrum	ent used:	16 RAE	
			7	

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

Nohe

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N	
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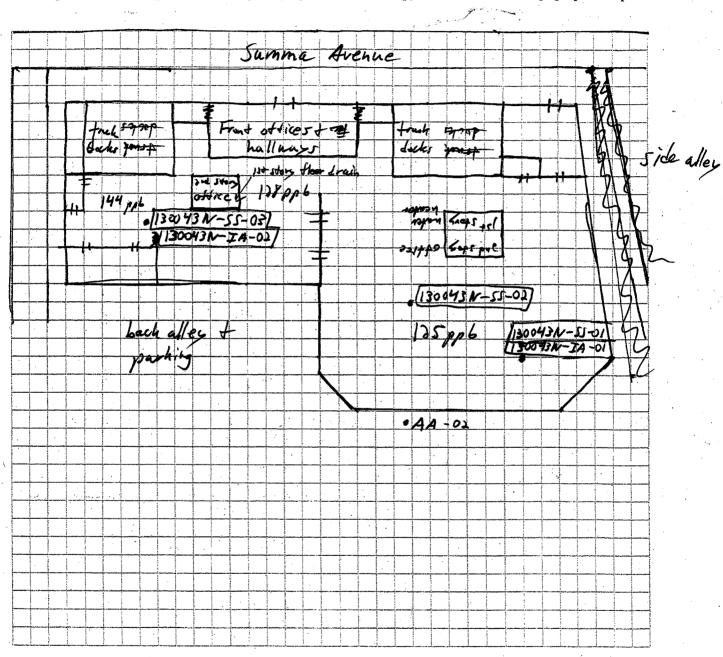
^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

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

12. OUTDOOR PLOT

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

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



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	6.5	-				 		
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		•						

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
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^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

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

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SS - Sub-stab Soil Veror SB - proposed Soil book Betermined after Cleared by A	Sample (priposed)
CB - catch boin, appro	oximale location

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 Kick Wakak Date/Time Prepared 2/17/10 13:00
Preparer's Affiliation Mactee Eng. + Cons. Phone No. 207-775-5401
Purpose of Investigation Soil Vapor Intrusion investigation a NY Site # 130043V
1. OCCUPANT:
Interviewed: YN
Last Name: Jacoby First Name: Jim
Address: 29 New York Ave
County: Nassau
Home Phone: Office Phone: 5/6-333-7577
Number of Occupants/persons at this location $\frac{20-64}{}$
2. OWNER OR LANDLORD: (Check if same as occupant)
Interviewed: Y(N)
Last Name: First Name:
Address:
County:
Home Phone: Office Phone:
3. BUILDING CHARACTERISTICS
Type of Building: (Circle appropriate response)
Residential School Commercial/Multi-use Industrial Church Other:

Infiltration into air ducts

		30.001		•
a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	other <u>NA</u>
c. Basement floor:	concrete	dirt	stone	other <u>NA</u>
d. Basement floor:	uncovered	covered	covered with	NA
e. Concrete floor:	unsealed	sealed	sealed with _	Painted
f. Foundation walls:	poured	block	stone	other ?
g. Foundation walls:	unsealed	sealed	sealed with _	?
h. The basement is:	wet	damp	dry	moldy None
i. The basement is:	finished	unfinished	partially finis	hed NA
j. Sump present?	Y/N			
k. Water in sump? Y/N	not applicable)		
asement/Lowest level depth below	grade: NA	(feet)	•	
Concrete slade join	1	Kest loo	ks compe	lans.
HEATING, VENTING and AII	R CONDITION	ING (Circle all 1	that apply)	
			. 7	ry)
ype of heating system(s) used in the Hot air circulation Space Heaters		rcle all that app Hotelion Radi	ly – note prima water baseboard ant floor	
ype of heating system(s) used in the	nis building: (cin	rcle all that app Hotelion Radi	ly – note prima water baseboard ant floor	
ype of heating system(s) used in the Hot air circulation Space Heaters Electric baseboard	uis building: (cin Heat pump Stream radiat	rcle all that app Hotelion Radi	ly – note prima water baseboard ant floor	
ype of heating system(s) used in the Hot air circulation Space Heaters Electric baseboard	Heat pump Stream radiat Wood stove Fuel Oil	rcle all that app Hot vition Radi Outd	ly – note prima water baseboard ant floor loor wood boiler	
ype of heating system(s) used in the Hot air circulation Space Heaters Electric baseboard he primary type of fuel used is: Natural Gas	Heat pump Stream radiat Wood stove	Hot stion Radi Outd	ly – note prima water baseboard ant floor loor wood boiler ssene	Other <u>Gas Air</u>
Hot air circulation Space Heaters Electric baseboard he primary type of fuel used is: Natural Gas Electric Wood	Heat pump Stream radiat Wood stove Fuel Oil Propane Coal	Hot stion Radi Outd	ly – note prima water baseboard ant floor loor wood boiler	Other <u>Gas Fi</u>
Hot air circulation Space Heaters Electric baseboard he primary type of fuel used is: Natural Gas Electric Wood omestic hot water tank fueled by:	Heat pump Stream radiat Wood stove Fuel Oil Propane Coal	Hotelion Radio Outdoor Sola	ly – note prima water baseboard ant floor loor wood boiler ssene	Other <u>Gas Air</u>
Hot air circulation Space Heaters Electric baseboard he primary type of fuel used is: Natural Gas Electric Wood comestic hot water tank fueled by: coiler/furnace located in: Base	Heat pump Stream radiat Wood stove Fuel Oil Propane Coal	Hotelion Radio Outdoor Sola	ly – note primal water baseboard ant floor loor wood boiler issene	Other Gas Aire



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	
t .	• • • • • • • • • • • • • • • • • • • •
7. OCCUPANCY	
Is basement/lowest level occupied? Full-time Occasionally Seldom	Almost Never No base
Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, wo	orkshop, storage)
Basement MA	
1st Floor Light manufacturing/	
2 nd Floor Offices	
3 rd Floor NA	
4 th Floor NA	
8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY	
a. Is there an attached garage?	
b. Does the garage have a separate heating unit? Y/N(NA)	
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y/N NA Please specify_	
d. Has the building ever had a fire? Y/N When?	?
e. Is a kerosene or unvented gas space heater present? Y Where	?
f. Is there a workshop or hobby/craft area? Y Where & Type	? Next doof.
g. Is there smoking in the building? Y How frequently	y?
h. Have cleaning products been used recently?	Every day
i. Have cosmetic products been used recently?	Only on the women

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?	YN When & Type?
m. Is there a kitchen exhaust fan?	Y (N) If yes, where vented?
n. Is there a bathroom exhaust fan?	Y (N) If yes, where vented?
o. Is there a clothes dryer?	Y (N) If yes, is it vented outside? Y / N
p. Has there been a pesticide application?	Y N When & Type?
Are there odors in the building? If yes, please describe:	Y/N
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or a boiler mechanic, pesticide application, cosmetologist	Nuto body shop, painting, fuel oil delivery,
If yes, what types of solvents are used? Mold cleaning	ig products
If yes, are their clothes washed at work?	YN
er de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la co	
Do any of the building occupants regularly use or work at a response)	dry-cleaning service? (Circle appropriate
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 is the system active or passive? Active/Passive	? Y N Date of Installation:
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Driver	n Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Leach	Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill residentia	al emergency)
a. Provide reasons why relocation is recommended:	
b. Residents choose to: remain in home relocate to fri	ends/family relocate to hotel/motel
c. Responsibility for costs associated with reimbursemen	nt explained? Y/N
d. Relocation package provided and explained to reside	nts? Y/N

11. FLOOR PLANS

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

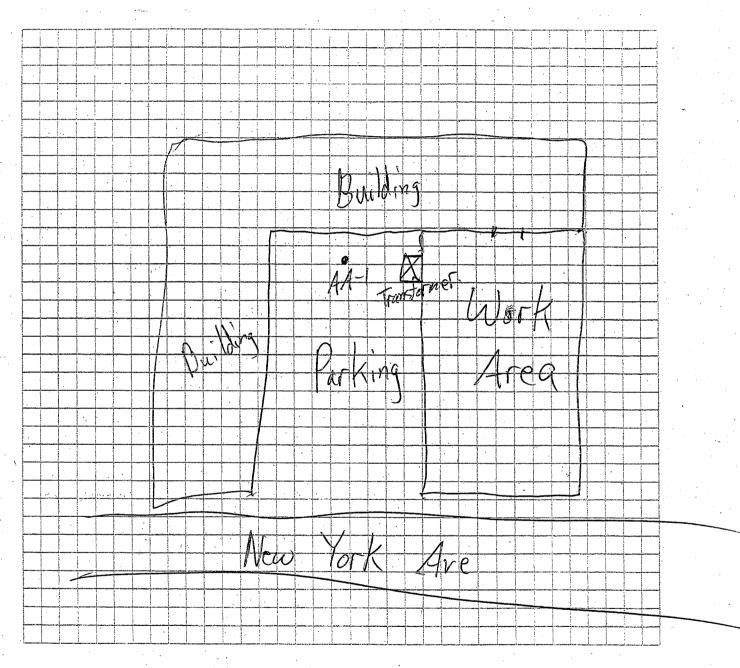
No Basement. Basement: Concrete out First Floor: (400 ppb) PID Readings otagp (440ppb) Side Door eus) Lilli

Fork lift
Door
way concrete
Slabs
Join

12. OUTDOOR PLOT

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

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



13	PRODUCT	INVENTORY	FORM

Make &	: Model	of field	instrument	used:			7 -
					 -	 	

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
Robot li	es Mold cleaner	16 02 Spray	o.K.	Perchloroethylene Toluen, Acetoup, CO2 Titanium Diorde, Aluminam Oxio	Bickground	N
1:	Plastic Colorants	Sgala	the Empty	Silicon Dioxide, Zircongum Dioxid	ne 'ii	N
u	Acid Vapor Neutralia	er 16	or solay can	TCE	11	N
Cage	Cleaners	Gallon	Good	Simple Green, Pine-Sol, Lysol, Windex	u	N
ti'				Denetured Akohol, WP-to		
*				Floor cleaner, Canof xyle	ne .	
				•		
						·
, 						
				/		
		а	, we the			

^{*} 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.

APPENDIX C

PHOTOGRAPHIC LOG

New Cassel Photos – IMC Magnetics (130043A)



Chemical Storage 1st Floor 1



Chemical Storage 1st Floor 2



Chemical Storage 1st Floor 3



Chemical Storage 1st Floor 4





Chemical Storage Basement 1

Chemical Storage Basement 2





IA-01 SS-01





SS-03

Vocational School Basement



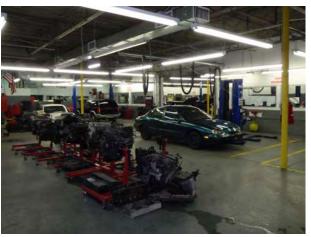
Vocational School Classroom



Vocational School Computer Cluster



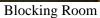
Vocational School East



Vocational School West

New Cassel Photos – Atlas Graphics (130043B)







Chemical Inventory 1



Chemical Inventory 2



Chemical Inventory 3

MACTEC Engineering and Consulting, P.C., Project No. 3612092127



Chemical Inventory 4



Chemical Inventory 5



Chemical Inventory 6



Chemical Inventory 7

MACTEC Engineering and Consulting, P.C., Project No. 3612092127

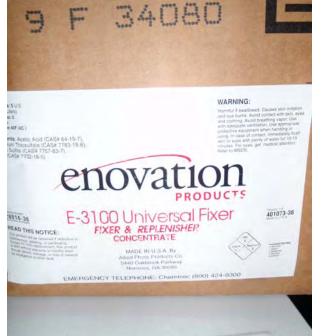


Chemical Inventory 8





Chemical Inventory 10



Chemical Inventory 11





Etching Room

Front Office





SS-02

Stripping Room





Workshop 1

Workshop 2

New Cassel Photos – Former Tishcon Corp (130043F)





Chemical Inventory 1



Northern Storage 1



Northern Storage 2





Southern Storage 1



Southern Storage Batteries 1



Southern Storage Batteries 2

MACTEC Engineering and Consulting, P.C., Project No. 3612092127





Southern Storage Batteries 3

Southern Storage Oil Spill





SS-02 SS-03

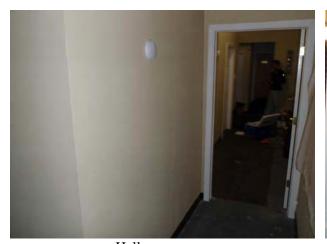
New Cassel Photos – Former LAKA Industries, Inc. (130043K)





Chemical Inventory

Hallway & Bathroom







Show Room







SS-02

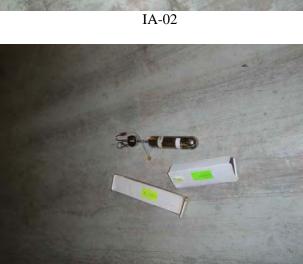




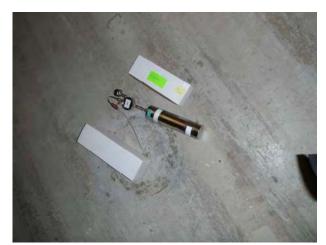
SS-03 Storage Room

New Cassel Photos – Former EZ-EM, Inc. (130043N)





SS-01 SS-02

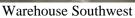




SS-03

Warehouse South Center







Warehouse West

APPENDIX D

DIRECT PUSH SOIL BORING LOGS

				SOIL BO	RING LU	G						
-	Project	IVIA	,			oring/Well N	10.	Project N 3612	10. 0921	27		
	Client NV	SDEU	Site	29 NW	York Av	12 5	Sheet No	1	of	3		
		B. Shaw		nd Elevation	Start Date		Finis Rig Type	h Date	-19 -	10		
	Drilling Contrac			Driller's Name	True	K T	nour	fed				
	Drilling Method	Direct	push	Protection Level	y 10.6 -						v/	
,	Soil Drilled ~ 2	5! Rock Dri	illed	Total Depth 25	Total Depth 25 Depth to Groundwater/Date							
	Depth(Feet) Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	(Blows/Ft.)	Samp	ole Descrip	tion		USCS Group Symbol	PI Meter Field Scan			
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(°) 1400	3-50 4-50	52% N		1-2 wherete 2.6 Lt oin negravel, go p, NP (SP)(FIL -5 Lt Brown Ty graded, M		refine	grarel, +1 SP	(SP)	D. 6			
52 -1412	6- 7- 8- 5.0 9-	10%	• ↑ -3	v. little rec 1-gat gred, course, poor p.(sp)	M course	Sand,	file,	- \$P	0.6			
				A				-				
	MAC 511 Congr		/	N	YSDEC QU <i>I</i>	ALITY AS		OIL BO		LQG	10	

					SOIL BO	RING	LOG								
·	Project	61A					Boring/We	II No.	Project No. 3612042127						
	Client NYS	DEL		Site	29 New"	pork	Ave	Sheet No	2	_ of	3	_			
	Logged By			Grou	Ground Elevation Start Date 05-19-10 Finish Date 05-19-										
	Drilling Contrac	tor AZT	uh		Driller's Name	dod	Gunnon	Rig Type	Truck	Mor	nte	d d			
	Drilling Method	Direc		sh	Protection Level	Ø	P.I.D. (eV)	Casing Size	e	Augei	Size 1	Iv. 1			
	Soil Drilled ~ 1	5 Rock	Drilled		Total Depth ~ 25	Depth	to Groundwat	er/Date	Well Boring						
	Depth(Feet) Sample No. & Penetration/	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)		Samp	ole Des	scription		USCS Group Symbol	Pl Meter G Scan G Sign	ace (im	Lab Tests ID Sample			
	S Be a	S					,			Pi Meter Field Sca	PI Meter Head Sp				
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,	15									0.6	<i>_</i>				
54				15-1°	The sand to gradedy subjects	tive of	pravel, Som	e gravel	-	0.6					
©.	2.9	58%	NA	well	graded, moens	e to t	ish Brown,	W coarse	Sw	1.4					
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						SOIL BO	RING	LOG						
	Projec	at No	1A				Project	Project No. 3612042127						
	Client	NY	SDEC		Site	29 New Y	ork	AVE	Sheet No	3 of 3				
	Logge	ed By	. Snav		Grou	Ground Elevation Start Date 05-19-10 Finish Date 05-								
	Drilling	g Contract	or 'Azt	ech		Driller's Name 🖁	Pruck	ruck Mounted						
	Drilling	g Method	Direc	t pu	sn	Protection Level	Auger Size							
	Soil D	rilled	Rock	Drilled	/	Total Depth	Piez	Well	Boring	2				
!	eet)	No. & tion/ (Feet)	ws/6" Rqd. %	N Ft.)			1			loqui	Moni (pp		sts ple	
	Depth(Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd.	SPT-N (Blows/Ft.)	···	Samp	USCS Group Symbol	PI Meter Field Scan	PI Meter Head Space	Lab Tests ID Sample				
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1435	23	5.0	46%	NA	214	usesmall fin	re gr	mvel, PG,	damp,	amp,				
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						S	SOIL B	ORING	LOG					3.4.	
	Projec	ot N	UIA						Boring/We	II No. -2	Proje <u>c</u> t J	5612092127			
	Client	N	SOEL	,	Site	29	New	York	- AVU	Sheet No	1	_ of	3		
	Logge	ワ	- Sna			Start Date 05-19-10 Finish Date 5-19-1									
	Drillin	g Contract	or Azt	ech		Drille	- Mo	Mouted							
	Drillin	g Method	Direv	t Dug	h		ection Leve		P.I.D. (eV) 6	Casing Size			Size		
	Soil D	rilled 725	Roci	k Drilled	_	Total	Depth -25	1 Depth	to Groundwate	er/Date	Piez	Well	Boring	,	
	Depth(Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	.1		·		Field Scan (3) PI Meter (3) PI Meter (3) Head Space (4) Lab Tests (1) Sample							
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	Soil Drilled	F Rock	Drilled	_	Total Depth	Depth to				Piez	Well		
	Sample No. & Penetration/	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)		Sample Description							PI Meter (3. Head Space	Lab Tests ID Sample
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1517	13-5.0	78%	NA	zr	avel, PG, N -gravelis w	Derib 41 reo	e to	d, NI	er, damp	Sp	0.2		
.53	14				-				•		0.2		
9	17 4.9	98%	NA	16.5	6.5 same a -zo et ovaro e Mccarse so m Dense, de	je bra nd –	in f wei	ines I rou	and, deel,	9	0.1		
1525	14-15.0									4	Lo.1		
	20					/ **				_			
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	Drillin	g Contract	or A	计	ech		Driller's	•		Gav	non	Rig Type						
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	Soil D	rilled 25	•	Rock	Drilled		Total De	epth ~75	Depth	to G	roundwate	r/Date	Piez	Well	Boring			
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	20	SS P	Ś	Core				***************************************						PI Meter Field Scan	PI Me Head			
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RESULTS

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MULTI-PARAMETER			RING SYSTEM		٠
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UNIT ID NUMBER:	M015			M014	
	pH Units	Conductivity	DO	Temperature	
CONCENTRATION	4.00	mS/cm 4.49	mg/L *	deg. C	
RESULTS		1.10	· . 	 	
ACCEPTABLE CRITERIA	10% of standard	+/- 10% of standar	d +/- 10% of	+/- 2.0 deg. C	
Auto Calibration Fluid Standard Source:			Expiration	Date:	·
TURBIDITY METER	TYPE:				•
	HACH2100)P		Lamotte 2020	
UNIT ID NUMBER:		M024-		<u> </u>	
STANDARD VALUE	< 0).01 NTU (low)		00 NTU (high)	
METER VALUE	-	NTU		NTU	_
ACCEPTABLE CRITERIA	within 0	.3 NTU of standard	+/-	10% of standard	
BHOTO IONIZATION	DEVIOE.				
PHOTO IONIZATION					
MODEL:	thermo 580			Mini RAE 2000	
UNIT ID NUMBER:	M	1001- MIDEC	- 1		·
CALIBRATION GAS L	OT NUMBE	R: 010379			
	Bankfrod			Span Gas	
BACKGROUND	7	0 ppmv		100 ppmv	7
METER VALUE	20			/05-> ppmv	
ACCEPTABLE CRITERIA	with	in 5 ppmv of 0	+/- 1	0% of standard	
O2-LEL					
		·			
	V-REA				
JNIT ID NUMBER:	M012				
CALIBRATION GAS L	OT NUMBER	3	<u> </u>		
GAS USED	METH	ANE O	XYGEN	H2S CO	
CONCENTRATION	509		0.00%	25 ppm 50 ppm	_

APPENDIX E

DATA USABILITY SUMMARY REPORTS AND ANALYTICAL DATA

DATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

1.0 INTRODUCTION

Thirty-four air samples were collected at the New Cassel Industrial Area in Westbury, New York in February 2010 and submitted for off-site laboratory analysis. Samples were analyzed by Centek Laboratories located in Syracuse, New York. Results were reported in the following Sample Delivery Groups (SDGs): C1002059 and C1002060.

A listing of samples included in this Data Usability Summary Report is presented in Table 1. A summary of the analytical results is presented in Table 2. Samples were analyzed by the following method:

• Volatile organic compounds (VOCs) by USEPA Method TO-15

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit

J = concentration is estimated

UJ = target analyte is not detected at the reported detection limit and is estimated

EJ = concentration is above the calibration range and is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 VOLATILE ORGANIC COMPOUNDS (VOCS)

VOC - Initial and Continuing Calibration

SDG C1002059

For the continuing calibration (analyzed February 28, 2010) associated with a subset of samples, the percent difference between the initial calibration average relative response factor (RRF) and the continuing calibration RRF was greater than 30 for benzyl chloride (-46). Benzyl chloride

was not detected in the associated samples, and quantitation limits were qualified as estimated (UJ) in samples 130043B-IA-01, 130043B-IA-02, and 130043A-SS-01.

SDG C1002060

For the continuing calibration (analyzed March 1, 2010) associated with all samples, the percent difference between the initial calibration average relative response factor (RRF) and the continuing calibration RRF was greater than 30 for benzyl chloride (-59). Benzyl chloride was not detected in the associated samples, and quantitation limits were qualified as estimated (UJ) in all samples of SDG C1002060.

VOC - Surrogates

SDG C1002059

Percent recovery for the surrogate bromofluorobenzene (136) in sample 130043F-IA-02 was above the control limits of 70-130 percent, indicating a potential high bias. Positive detections of all target compounds reported in sample 130043F-IA-02 were qualified as estimated (J) and may represent potential high biases.

VOC - Internal Standards

SDG C1002059

One or more internal standard areas were outside control limits in the initial undiluted analyses and/or subsequent diluted analyses of the following samples:

130043A-IA-01	130043F-IA-02
130043A-IA-02	130043V-IA-01
130043B-IA-01	130043V-22-02D
130043B-IA-02	130043V-IA-02
130043F-IA-01	130043A-SS-01

Positive and non-detected results associated with these internal standards were qualified as estimated (J/UJ).

SDG C1002060

One or more internal standard areas were outside control limits in the initial undiluted analyses and/or subsequent diluted analyses of the following samples:

130043B-SS-02	130043K-SS-03
130043B-SS-03	130043N-SS-01
130043F-SS-02	130043N-SS-02
130043K-SS-01	130043V-SS-02

Positive and non-detected results associated with these internal standards were qualified as estimated (J/UJ).

VOC – Laboratory Control Samples

SDG C1002 059

Percent recoveries for bromodichloromethane (133) and carbon tetrachloride (142) were above the LCS control limits of 70-130 percent in the LCS (analyzed February 27, 2010). Positive detections of bromodichloromethane and carbon tetrachloride in associated samples were qualified as estimated (J).

Percent recoveries for 1,3,5-trimethylbenzene (65) and tetrachloroethene (201) were outside the control limits in the LCS (analyzed February 28, 2010). In addition, the relative percent difference (RPD) between LCS and LCS duplicate recoveries for tetrachloroethene (49) was above the control limit of 30. Positive and non-detected results for 1,3,5-trimethylbenzene and tetrachloroethene were qualified as estimated (J/UJ) in associated samples.

SDG C1002060

Percent recovery for tetrachloroethene (201) was above the control limits in the LCS (analyzed February 28, 2010) associated with sample 130043F-SS-02. In addition, the relative percent difference (RPD) between LCS and LCS duplicate recoveries for tetrachloroethene (49) was above the control limit of 30. The positive detection of tetrachloroethene in associated sample 130043F-SS-02 was qualified as estimated (J).

Percent recoveries of 1,2,4-trimethylbenzene (65), 1,3,5-trimethylbenzene (68), 2-propanol (60), methyl tert-butyl ether (46), tetrahydrofuran (62), and vinyl acetate (63) were below the control limits in the LCS (analyzed March 1, 2010). Positive and non-detected results for these analytes were qualified as estimated (J/UJ) in associated samples.

VOC – Field Duplicates

A single field duplicate was collected from soil vapor location 130043V-SS-02. As discussed below, relatively large differences were observed between the original sample and the field duplicate indicating that low precision of measurement may have been obtained for the soil vapor samples. A detailed review of laboratory data and field collection records identified no sample identification or data reporting errors. The canister pressure for both samples had gone to <1 "Hg at the end of sample collection. This may have impacted the results reported from these canisters. Based on professional judgment, only results for the original sample 130043V-SS-02 and the associated field duplicate were qualified. However, the data user should consider all soil vapor results as potentially estimated due to uncertainties regarding sampling and/or analytical precision.

SDG C1002059 and C1002060

Relative percent differences (RPDs) between field duplicate results for sample 130043V-SS-02 (SDG C1002060) and field duplicate 130043V-SS-02D (SDG C1002059) were above the limit of 100 for a subset of target analytes. Duplicate pair results that are above the RPD limit and validation qualification actions are summarized below:

Analyte	Sample Conc (ug/m3)	Field Dup Conc (ug/m3)	RPD	Qualifier
1,1,1-Trichloroethane	290	3800	172	J
1,1-Dichloroethane	8.2	79	162	J
1,1-Dichloroethene	25	780	188	J
1,4-Dioxane	. ND	27	184	J/UJ
2-Propanol	ND	21	193	J/UJ
4-Methyl-2-pentanone	31	1000	188	J
Heptane	9.7	3.1	103	J
Trichloroethene	5.8	43	153	J
o-Xylene	80	360	127	J

ND = Non-detected

VOC - Sample Ouantitation

SDG C1002059 and C1002060

The laboratory qualified a subset of results with 'E' to indicate the reported concentrations were above the calibration range. During data validation, 'E' qualifiers were changed to 'EJ' qualifiers to indicate the results are above the calibration range and are considered estimated.

VOC - Sample Reporting

Two laboratory control sample summaries were missing from the data package originally submitted to MACTEC. The laboratory was contacted and the missing LCS summaries were received on April 21, 2010.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

USEPA Region 2, 2006. "Validating Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15"; SOP # HW-31, Revision 4, Hazardous Waste Support Branch; October 2006.

Data Validator: Julie Ricardi

CR for Julie Recard. Date: 04/22/2010

Reviewed by Chris Ricardi, NRCC-EAC

Che Riadi

Ouality Assurance Officer

Date: 7/26/2010

TABLE 1 – SAMPLE SUMMARY DATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

					Class	VOC
					Method	TO-15
					Fraction	Ţ
SDG	Media	Location	Sample ID	Sample Date	QC Code	
C1002059	Air	A-AA-1	130043-AA-01	2/15/2010	FS	X
C1002059	Air	A-IA-01	130043A-IA-01	2/15/2010	FS	X
C1002059	Air	A-IA-02	130043A-IA-02	2/15/2010	FS	X
C1002059	Air	B-IA-01	130043B-IA-01	2/16/2010	FS	X
C1002059	Air	B-IA-02	130043B-IA-02	2/16/2010	FS	X
C1002059	Air	F-IA-01	130043F-IA-01	2/16/2010	FS	· X
C1002059	Air	F-IA-02	130043F-IA-02	2/16/2010	FS	X
C1002059	Air	K-IA-01	130043K-IA-01	2/16/2010	FS	X
C1002059	Air	K-IA-02	130043K-IA-02	2/16/2010	FS	X
C1002059	Air	N-AA-2	130043-AA-02	2/16/2010	FS	X
C1002059	Air	N-IA-01	130043N-IA-01	2/16/2010	FS ⁻	X
C1002059	Air	N-IA-02	130043N-IA-02	2/16/2010	FS	X
C1002059	Air	V-AA-1	130043V-AA-01	2/18/2010	FS	X
C1002059	Air	V-IA-01	130043V-IA-01	2/18/2010	FS	X_
C1002059	Air	V-IA-02	130043V-IA-02	2/18/2010	FS	X
C1002059	Air	V-SS-02	130043V-SS-02D	2/18/2010	FD	X
C1002059	SV	A-SS-01	130043A-SS-01	2/15/2010	FS	X
C1002060	SV	A-SS-02	130043A-SS-02	2/15/2010	FS	X
C1002060	SV	A-SS-03	130043A-SS-03	2/15/2010	FS	X
C1002060	SV	B-SS-01	130043B-SS-01	2/16/2010	FS	X
C1002060	SV	B-SS-02	130043B-SS-02	2/16/2010	FS	X
C1002060	SV	B-SS-03	130043B-SS-03	2/16/2010	FS	. X
C1002060	SV	F-SS-01.	130043F-SS-01	2/16/2010	FS	X
C1002060	SV	F-SS-02	130043F-SS-02	2/16/2010	FS	X
C1002060	SV	F-SS-03	130043F-SS-03	2/16/2010	FS	X
C1002060	SV	K-SS-01	130043K-SS-01	2/16/2010	FS	X
C1002060	SV	K-SS-02	130043K-SS-02	2/16/2010	FS	X
C1002060	SV	K-SS-03	130043K-SS-03	2/16/2010	FS	X
C1002060	SV	N-SS-01	130043N-SS-01	2/16/2010	FS	X
C1002060	SV	N-SS-02	130043N-SS-02	2/16/2010	FS	X
C1002060	SV	N-SS-03	130043N-SS-03	2/16/2010	FS	X
C1002060	SV	V-SS-01	130043V-SS-01	2/18/2010	FS	X
C1002060	SV	V-SS-02	130043V-SS-02	2/18/2010	FS	X
C1002060	SV	V-SS-03	130043V-SS-03	2/18/2010	FS	X

Notes:

QC Code: FS = Field Sample Media: SV = Soil Vapor

Sample ID: IA = Indoor Air, AA = Ambient Air, SS = Sub-slab

Fraction: T = Total

								2400000	Giococco I	GIOGOGEO
	Sample	Delivery Group	C1002059	C1002059	C1002059	C1002059	C1002059	C1002059	C1002059	C1002059
		Location	A-AA-1	N-AA-2	V-AA-1	A-IA-01	A-IA-02	B-IA-01	B-IA-02	F-IA-01 2/16/2010
		Sample Date	2/15/2010	2/16/2010	2/18/2010	2/15/2010	2/15/2010	2/16/2010	2/16/2010	
		Sample ID	130043-AA-01	130043-AA-02	130043V-AA-01	130043A-IA-01	130043A-IA-02	130043B-IA-01	130043B-IA-02 FS	130043F-IA-01 FS
		QC Code	FS	FS	FS	FS	FS II G II G	FS FS	Result Oualifier	Result Oualifier
	Param Name	Units	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier 0.83 U	0.83 U	0.83 U
TO15	1,1,1-Trichloroethane	ug/m3	0.83 U	0.83 U	0.83 U	0.83 UJ 1 UJ	0.83 UJ 1 UJ	1 UJ	1 UJ	1 UJ
TO15	1,1,2,2-Tetrachloroethane	ug/m3	1 U	1 U	1 U	1.2 U	1.8	1,2 U	1.2 U	1.2 U
TO15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.2 U	1.2 U	1.2 U 0.83 U	0.83 UJ	0.83 UJ	0.83 U	0.83 U	0.83 U
TO15	1,1,2-Trichloroethane	ug/m3	0.83 U	0.83 U 0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
TO15	1,1-Dichloroethane	ug/m3	0.62 U	0.62 U	0.62 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
	1,1-Dichloroethene	ug/m3.	0.6 U	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
	1,2,4-Trichlorobenzene	ug/m3	1.1 U	0.75 U	0.75 U	1.1 0.3 19 J	7 J	0.8 J	1.4 J	7.4 J
TO15	1,2,4-Trimethylbenzene	ug/m3	2 1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 UJ	1.2 UJ	1,2 UJ	1.2 UJ
	1,2-Dibromoethane	ug/m3	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U
	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3 ug/m3	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 UJ	0.92 UJ	0.92 UJ	0.92 UJ
	1,2-Dichlorobenzene	ug/m3	0.92 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
	1,2-Dichloropropane	ug/m3	0.02 U	0.7 U	0.7 U	0.7 UJ	0.7 UJ	0.7 U	0.7 U	0.7 U
	1,3,5-Trimethylbenzene	ug/m3	1.2	0.75 U	0.75 U	4.6 J	7.3 J	0.75 UJ	0.5 J	1.6 J
	1.3-Butadiene	ug/m3	0.34 U	0.34 U	0.34 U					
	1,3-Buladrene 1,3-Dichlorobenzene	ug/m3	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 UJ	0.92 UJ	0.92 UJ	0.92 UJ
TO15	1.4-Dichlorobenzene	ug/m3	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 UJ	0.92 UJ	0.92 UJ	0.92 UJ
TO15	1.4-Dioxane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 U
TO15	2-Butanone	ug/m3	0.9 U	0.78 J	1.1	0.9 U	5.2	1.5	0.9 U	8.3
TO15	2-Hexanone	ug/m3	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
TO15	2-Propanol	ug/m3	0,37 U	2,1	6.2 EJ	120	0.37 U	38	110	5.5
TO15	4-Ethyltoluene	ug/m3	1.3	0.75 U	0.75 U	7.8 J	13 J	0.5 J	1 J	3.4 J
TO15	4-Methyl-2-pentanone	ug/m3	1.2 U	1.2 U	1.2 U	3.4 J	3.2 J	1.2 UJ	1.2 UJ	2 J
TO15	Acetone	ug/m3	- 44	12 EJ	17 EJ	39	49	180	360	24 EJ
TO15	Allyl chloride	ug/m3	0.48 U	0.48 U	0.48 U					
TO15	Benzene	ug/m3	1.3	0.75	0.88	8,4 J	11	1.3	2.1	1.4
TO15	Benzyl chloride	ug/m3	0.88 U	0.88 U	0.88 U	0.88 UJ	0.88 UJ	0.88 UJ	0.88 UJ	0.88 UJ
TO15	Bromodichloromethane	ug/m3	1 U	1 U	1 U	1 UJ	3.7 J	1 U	I U	I U
TO15	Bromoform	ug/m3	1.6 U	1.6 U	1.6 U	1,6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ
TO15	Bromomethane	ug/m3	0.59 U	0.59 U	0.59 U					
TO15	Carbon disulfide	ug/m3	0.41 J	0.47 U	0.47 U	0.47 U				
TO15	Carbon tetrachloride	ug/m3	0.58 J	0.58 J	0.58 J	0.45 J	0.51 J	0.26 U	0.26 U	0.51 J
TO15	Chlorobenzene	ug/m3	0.7 U	0.7 U	0.7 U	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ 1.3 UJ	0.7 UJ 1.3 UJ
TO15	Chlorodibromomethane	ug/m3	1.3 U	1.3 U	1.3 U	1.3 UJ	. 1.3 UJ	1,3 UJ	0.4 U	0.4 U
TO15	Chloroethane	ug/m3	0.4 U	0.4 U	0.4 U					
TO15	Chloroform	ug/m3	1.2	0.74 U	0.74 U	1.1 0,99	· 88	0.74 U 0.73	0.74 0	0.7410
TO15	Chloromethane	ug/m3	0.69	0.78	0.8		0.6 U	0.73 0.6 U	0.6 U	0.6 U
TO15	Cis-1,2-Dichloroethene	ug/m3	0.6 U	0.6 U	0.6 U	1.6 0.69 UJ	0.69 UJ	0.69 U	0.69 U	0.69 U
TO15	cis-1,3-Dichloropropene	ug/m3	0.69 U	0.69 U	0.69 U	0.69[0.]	18	0.52 U	3.3	0.52 U
TO15	Cyclohexane	ug/m3	12	0.52 U 2.3	0.52 U 2.5	2.4	2.3	2 2	2	2.3
TO15	Dichlorodifluoromethane	ug/m3	2.2	0.92 U	1.4	0.92 U				
TO15	Ethyl acetate	ug/m3	1113	0.92 U 0.66 U	0.92 U	12 J	0.92 U	1300 EJ	2300 EJ	7.3 J
TO15	Ethyl benzene	ug/m3	1.7	0.62 U	0.49 J	13	27	1.2	2,5	1.7
TO15	Heptane	ug/m3 ug/m3	1.7 1.6 U	1.6 U	1.6 U	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ
TO15	Hexachlorobutadiene	ug/m3	6.6	0.54 U	0.54 U	21	29	2.1	4.9	0,54 U
TO15	Hexane Isooctane	ug/m3	0.62 J	0.71 U	0.71 U	16	11	1.1	2.2	0.71 U
TO15	Methyl Tertbutyl Ether	ug/m3	0.55 U	0.71 U	0.71 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U
TO15	Methylene chloride	ug/m3	1.3	0.53 U	1.3	3.5	1.2	0.42 J	0.42 J	0.42 J
[1012	Insettiviene cilioride	ng/iii2	1 1,2	1 0.55 0	1 1.0	<u> </u>				· · · · · · · · · · · · · · · · · · ·

	S	ample Delivery Group	C1002	2059	C1002	059	C1002	2059	C1002	059	C1002	059	C1002		C1002		C1002	
		Location	A-A	A-1	N-AA	2	V-A	A-1	A-IA	-01	A-IA	02	B-IA	-01	B-IA-		F-IA	
		Sample Date	2/15/2	2010	2/16/20	010	2/18/2	2010	2/15/2	010	2/15/2	010	2/16/2	010	2/16/2	010	2/16/2	
		Sample ID	130043-	AA-01	130043-	A-02	130043V	-AA-01	130043A	-IA-01	130043A	-IA-02	130043B	IA-01	130043B	-IA-02	130043F	?-IA-01
		QC Code	FS		FS		FS	3	FS									
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier		Qualifier		Qualifier		Qualifier		Qualifier		Qualifier
TO15	Propylene	ug/m3	0.26	Ū	0.26	J	0.26	U	0.26	U	0.26		0.26		0.26		0.26	
TO15	Styrene	ug/m3	1.7		0.65	J	0.65	U	0.65	UJ	0.65		0.65		0.65		0.65	
TO15	Tetrachloroethene	ug/m3	4.6		1.1		4.1		74	J	220	J	1.9	J	1.6	J	1.7	
TO15	Tetrahydrofuran	ug/m3	0.45	Ū	0.45	J	0.45	U	0.45	U	0.45	U	0.45	ប	0.45		0.45	
TO15	Toluene	ug/m3	57		2.3		3.7		41		47		600		1300		7.2	
TO15	trans-1,2-Dichloroethene	ug/m3	0.69		0.6	Ĵ	0.6	U	0.6	U	0.6	U	0.6		0.6		0.6	
TO15	trans-1,3-Dichloropropene	ug/m3	0.69	U	0.69	Ú	0.69	U	0.69	UJ	0.69	UJ	0.69	U	0.69	U	0.69	
TO15	Trichloroethene	ug/m3	2.1		0.22	Ű	0.22	U	5.6	J	1.6	J	27		28		3.2	<u> </u>
TO15	Trichlorofluoromethane	ug/m3	1.1		1		1.2		1.1		1		0.97		0.97		1.2	
TO15	Vinyl acetate	ug/m3	0.54	Ū	0.54	IJ	0.54	U	0.54	+								
TO15	Vinyl bromide	ug/m3	0.67	Ū	0.67	Ũ	0.67	U	0.67	U	0.67	U	0.67	U	0.67		0.67	
TO15	Vinyl chloride	ug/m3	0.1		0.1	Ü	0.1	U	0.1	U	0.1	U	0.1		0.1		0.1	
TO15	Xylene, m/p	ug/m3	11		1.3		1.2	j	16	J	35	J	4600	EJ	6900	EJ	5.5	
TO15	Xylene, o	ug/m3	6.3		0.66	U	0.66	U	13	J	10	J	430		900	J	2.6	J

NOTES:

QC Code: FS = Field Sample, FD = Field Duplicate

Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,

EJ = Estimated; concentration is above the linear range of calibration

	Sample	Delivery Group	C1002059	C1002059		C1002059	C1002059	C1002059	C1002059	C1002059
		Location	F-IA-02	K-IA-01	C1002059 K-IA-02	N-IA-01	N-IA-02	V-IA-01	V-SS-02	V-IA-02
		Sample Date	2/16/2010	2/16/2010	2/16/2010	2/16/2010	2/16/2010	2/18/2010	2/18/2010	2/18/2010
,		Sample ID	130043F-IA-02	130043K-IA-01	130043K-IA-02	130043N-IA-01	130043N-IA-02	130043V-IA-01	130043V-SS-02D	130043V-IA-02
		OC Code	FS	FS FS	FS	FS	FS	FS	FD	FS
A I	Param Name	Units	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier
	1,1,1-Trichloroethane	ug/m3	0.83 UJ	0.83 U	0.83 U	1.2	1.2	4.2 J	290 J	4.7 J
	1.1.2.2-Tetrachloroethane	ug/m3	1 UJ	1 Ü	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.93 J	1.2 U
	1,1,2-Trichloroethane	ug/m3	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U	0.83 UJ	0.83 UJ	0.83 UJ
	1,1-Dichloroethane	ug/m3	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	1.5	8.2 J	1.6
	1,1-Dichloroethene	ug/m3	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	25 J	0.6 U
	1,2,4-Trichlorobenzene	ug/m3	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 UJ
	1,2,4-Trimethylbenzene	ug/m3	2.7 J	1.3	1.8	1	0.75 U	1 J	2.7 J	1.3 J
	1,2-Dibromoethane	ug/m3	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 UJ	1.2 UJ
	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
	1,2-Dichlorobenzene	ug/m3	0.92 UJ	0.92 U	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 UJ	0.92 UJ
	1,2-Dichloroethane	ug/m3	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
	1,2-Dichloropropane	ug/m3	0.7 UJ	0.7 U	0.7 U	0.7 U	0.7 U	0.7 UJ	0.7 UJ	0.7 UJ
	1,3,5-Trimethylbenzene	ug/m3	1.2 J	0.75 U	0.55 J	0.75 U	0.75 U	0.75 UJ	1,3 J	0.75 UJ
TO15	1,3-Butadiene	ug/m3	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
	1,3-Dichlorobenzene	ug/m3	0.92 UJ	0.92 U	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 UJ	0.92 UJ
TO15	1,4-Dichlorobenzene	ug/m3	0.92 UJ	0.92 U	0.92 U	0.92 U	0.92 U	1.8 J	1.7 J	1.6 J 1.1 UJ
TO15	1,4-Dioxane	ug/m3	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 UJ 4.4
TO15	2-Butanone	ug/m3	0.9 U	4.1	2.3	1,6	0.78 J	4.9	4.5	
TO15 2	2-Hexanone	ug/m3	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ 28	1.2 UJ 0.37 UJ	1.2 UJ 0.37 U
TO15	2-Propanol	ug/m3	0.37 U	58 EJ	51 EJ	2	2 2 75 11	0.55 J	0.37 UJ	0.55 J
	4-Ethyltoluene	ug/m3	1.7 J	0.75 U	0.8	0.75 U	0.75 U 1.2 U	2.6 J	31 J	0.55 J
	4-Methyl-2-pentanone	ug/m3	1.6 J	1.2 U	1.2 U	1.2 U 14 EJ	1.2 U 12 EJ	140	170	280
	Acetone	ug/m3	24 EJ	29 EJ	74 EJ 0.48 U	0.48 U	0.48 U	0.48 U	0,48 U	0.48 U
	Allyl chloride	ug/m3	0.48 U	0.48 U	1.8	0.48 0	0.78	1.3 J	1.6 J	1.3 J
	Benzene	ug/m3	1.6 J 0.88 UJ	1.2 0.88 U	0.88 U	0.81 0.88 U	0.78 0.88 U	0.88 UJ	0.88 UJ	0.88 UJ
	Benzyl chloride	ug/m3	0.88 UJ 1 UJ	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
	Bromodichloromethane	ug/m3	1.6 UJ	1.6 U	1.6 U	1.6 U	1.6 U	1.6 UJ	1.6 UJ	1.6 UJ
	Bromoform	ug/m3	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U
<u> </u>	Bromomethane	ug/m3 ug/m3	0.39 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.98	0,47 U
	Carbon disulfide	ug/m3	0.45 J	0.47 J	0.51 J	0.58 J	0.7 J	0.51 J	0.96 UJ	0.51 J
	Carbon tetrachloride	ug/m3	0.7 UJ	0.7 U	0.7 U	0.7 U	0.7 U	0.7 UJ	0.51 J	0.47 J
	Chlorobenzene Chlorodibromomethane	ug/m3	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 UJ	1.3 UJ
	Chloroethane	ug/m3	0.4 U	0.4 U	0.4 U	0.4 U	0,4 U	0.4 U	0.4 U	0.4 U
	Chloroform	ug/m3	0.4 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
	Chloromethane	ug/m3	0.74 J	0.86	0.8	ı	0.78	1.4	0.31 U	1.1
	Cis-1,2-Dichloroethene	ug/m3	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
	cis-1,3-Dichloropropene	ug/m3	0.69 UJ	0.69 U	0.69 U	0.69 U	0.69 U	0.69 UJ	0.69 UJ	0.69 UJ
	Cyclohexane	ug/m3	36 J	0.52 U	0.52 U	0.52 U	0.52 U	0.52 UJ	0.52 UJ	0.52 UJ
	Dichlorodifluoromethane	ug/m3	2.2 J	2.4	2.3	2.3	2,3	3	0.75 U	3.2
	Ethyl acetate	ug/m3	26 EJ	0.92 U	0.92 U	0.92 U	0.92 U	3.5	2.3	3.5
	Ethyl benzene	ug/m3	3.8 J	1.1	2.1	0.66 U	0.66 U	41	68	59
	Heptane	ug/m3	3.1 J	1.9	1.2	0.62 U	0.62 U	9.2 J	9.7 J	8.7
	Hexachlorobutadiene	ug/m3	1.6 UJ	1.6 U	1.6 U	1.6 U	1.6 U	1.6 UJ	1.6 UJ	1.6 UJ
	Hexane	ug/m3	16 EJ	0.54 U	0.54 U	0.54 U	0.54 U	6.4	10	5.4
	Isooctane	ug/m3	0.57 J	0.71 U	1.1	0.71 U	0.71 U	0.71 UJ	0.71 UJ	0.71 UJ
	Methyl Tertbutyl Ether	ug/m3	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U
	Methylene chloride	ug/m3	1.6 J	0.46 J	0.39 J	0.53 U	0.39 J	1.5	1.6	1.7

		Sample Delivery Group	C1002059	C1002059	C1002059	C1002059	C1002059	C1002059	C1002059	C1002059
		Location	F-IA-02	K-IA-01	K-IA-02	N-IA-01	N-1A-02	. V-IA-01	V-SS-02	V-IA-02
		Sample Date	2/16/2010	2/16/2010	2/16/2010	2/16/2010	2/16/2010	2/18/2010	2/18/2010	2/18/2010
 		Sample ID	130043F-IA-02	130043K-IA-01	130043K-IA-02	130043N-IA-01	130043N-IA-02	130043V-IA-01	130043V-SS-02D	130043V-IA-02
		OC Code	FS	FS	FS	FS	FS	FS	FD	FS
Analysis	Param Name	Units	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier
	Propylene	ug/m3	0.26 U	0,26 U	0.26 U					
TO15	Styrene	ug/m3	1.3 J	0.48 J	1.4	0.65 U	0.65 U	0.65 UJ	0.65 UJ	0.65 UJ
TO15	Tetrachloroethene	ug/m3	1.9 J	1.7	5.4	1.6	1	610	1500	1600 J
TO15	Tetrahydrofuran	ug/m3	0.45 U							
TO15	Toluene	ug/m3	71 EJ	12 EJ	18 EJ	1.5	1.4	59	110	68
TO15	trans-1,2-Dichloroethene	ug/m3	0.6 U							
TO15	trans-1,3-Dichloropropene	ug/m3	0.69 UJ	0.69 U	0.69 U	0.69 U	0.69 U	0.69 UJ	. 0.69 UJ	0.69 UJ
TO15	Trichloroethene	ug/m3	1.8 J	0.87	0.6	0.22 U	0.33	2.5 J	5.8 J	2.5 J
TO15	Trichlorofluoromethane'	ug/m3	1 J	1.1	1.7	0.97	1.1	4.2	6.7	4.6
TO15	Vinyl acetate	ug/m3	0.54 U							
TO15	Vinyl bromide	ug/m3	0.67 U							
TO15	Vinyl chloride	ug/m3	0.1 U	0.39 U	0.1 U					
TO15	Xylene, m/p	ug/m3	9.7 J	3.3	7.1	0.79 J	0.66 J	83 J	250	290
TO15	Xylene, o	ug/m3	2.7 J	1.1	2.2	0.66 U	0.66 U	27	80 J	38

NOTES:

QC Code: FS = Field Sample, FD = Field Duplicate

Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,

EJ = Estimated; concentration is above the linear range of calibratic

TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1	Param Name ,1,1-Trichloroethane ,1,2,2-Tetrachloroethane ,1,2-Trichloro-1,2,2-Trifluoroethane ,1,2-Trichloroethane ,1-Dichloroethane ,1-Dichloroethane	Delivery Group Location Sample Date Sample ID QC Code Units ug/m3 ug/m3 ug/m3	C1002059 A-SS-01 2/15/2010 130043A-SS-01 FS Result Qualifier 240 1 UJ	C1002060 A-SS-02 2/15/2010 130043A-SS-02 FS Result Qualifier 2.8	C1002060 A-SS-03 2/15/2010 130043A-SS-03 FS Result Qualifier	C1002060 B-SS-01 2/16/2010 130043B-SS-01 FS	C1002060 B-SS-02 2/16/2010 130043B-SS-02 FS	B-SS-03 2/16/2010 130043B-SS-03	F-SS-01 2/16/2010 130043F-SS-01
TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1	,1,1-Trichloroethane ,1,2,2-Tetrachloroethane ,1,2-Trichloro-1,2,2-Trifluoroethane ,1,2-Trichloroethane ,1-Dichloroethane	Sample Date Sample ID QC Code Units ug/m3 ug/m3 ug/m3	2/15/2010 130043A-SS-01 FS Result Qualifier 240	2/15/2010 130043A-SS-02 FS Result Qualifier	2/15/2010 130043A-SS-03 FS	2/16/2010 130043B-SS-01	130043B-SS-02	130043B-SS-03	130043F-SS-01
TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1	,1,1-Trichloroethane ,1,2,2-Tetrachloroethane ,1,2-Trichloro-1,2,2-Trifluoroethane ,1,2-Trichloroethane ,1-Dichloroethane	Sample ID QC Code Units ug/m3 ug/m3 ug/m3	130043A-SS-01 FS Result Qualifier 240	130043A-SS-02 FS Result Qualifier	130043A-SS-03 FS	130043B-SS-01			
TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1	,1,1-Trichloroethane ,1,2,2-Tetrachloroethane ,1,2-Trichloro-1,2,2-Trifluoroethane ,1,2-Trichloroethane ,1-Dichloroethane	QC Code Units ug/m3 ug/m3 ug/m3	FS Result Qualifier 240	FS Result Qualifier	FS		FS	F0	
TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1	,1,1-Trichloroethane ,1,2,2-Tetrachloroethane ,1,2-Trichloro-1,2,2-Trifluoroethane ,1,2-Trichloroethane ,1-Dichloroethane	Units ug/m3 ug/m3 ug/m3	Result Qualifier 240	Result Qualifier				FS	FS
TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1	,1,1-Trichloroethane ,1,2,2-Tetrachloroethane ,1,2-Trichloro-1,2,2-Trifluoroethane ,1,2-Trichloroethane ,1-Dichloroethane	ug/m3 ug/m3 ug/m3	240			Result Qualifier	Result Qualifier	Result Oualifier	Result Qualifier
TO15 1 TO15 1 TO15 1 TO15 1 TO15 1 TO15 1	,1,2,2-Tetrachloroethane ,1,2-Trichloro-1,2,2-Trifluoroethane ,1,2-Trichloroethane ,1-Dichloroethane	ug/m3 ug/m3			95	180 EJ	240	160 EJ	60
TO15 1 TO15 1 TO15 1 TO15 1 TO15 1	,1,2-Trichloro-1,2,2-Trifluoroethane ,1,2-Trichloroethane ,1-Dichloroethane	ug/m3		1 U	110	I U	1 ÜJ	1 UJ	. 1 U
TO15 I TO15 I TO15 I TO15 I	,1,2-Trichloroethane ,1-Dichloroethane		11	2.3	470 EJ	35	3.2	44	1.2 U
TO15 I TO15 I TO15 I	,1-Dichloroethane	110/m2 1	1.9 J	0.83 U	0.83 U	0.83 U	3.8	1.1	0.83 U
TO15 1 TO15 1		ug/m3 ug/m3	1.9 3	0.62 U	0.62 U	56	3.5	22	0.62 U
TO15 1		ug/m3	0.6 U	0.6 U	0.6 U	0.6 U	2.5	0.6 U	0.6 U
	.2.4-Trichlorobenzene	ug/m3	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 U
11012 11	2.4-Trimethylbenzene	ug/m3	2.9 J	1.3 J	6.7 J	1.8 J	40 J	3.1 J	1 J
TO15 1	2-Dibromoethane	ug/m3	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 UJ	1.2 U
	,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
	,2-Dichlorobenzene	ug/m3	0.92 UJ	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 UJ	0.92 U
	,2-Dichloroethane	ug/m3	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
	,2-Dichloropropane	ug/m3	0.7 UJ	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
	,3,5-Trimethylbenzene	ug/m3	0.9 J	0.75 UJ	2.3 J	0.75 UJ	12 J	0.75 J	0.75 UJ
	.3-Butadiene	ug/m3	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
	,3-Dichlorobenzene	ug/m3	0.92 UJ	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 UJ	0.92 U
	4-Dichlorobenzene	ug/m3	0.92 UJ	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 UJ	0.92 U
	,4-Dioxane	ug/m3	1.1 UJ	1.1 U	1.1 U	1.1 U	17	1.1 U	0.4 J
	2-Butanone	ug/m3	13	2.9	4	6.6 J	7.8 J	5.7 J	4.7
	2-Hexanone	ug/m3	1.2 UJ	1.2 U	1.1 J	1.3	1,2 UJ	1.2 UJ	1.2 U
	2-Propanol	ug/m3	260	40	53	71 EJ	230 J	60 EJ	66 EJ
TO15 4	I-Ethyltoluene	ug/m3	0.75 UJ	0.75 U	1.3	0.55 J	9.7 J	1.3 J	0.75 U
	1-Methyl-2-pentanone	ug/m3	4.9 J	1 J	1 J	2.1	3.2 J	1.2 UJ	0.96 J
TO15	Acetone	ug/m3	170	28	46	110 EJ	610	82 EJ	63 EJ
TO15 A	Allyl chloride	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
TO15 E	Benzene	ug/m3	17	0.62	4.3	1.5	5	1.8	0.78
TO15 E	Benzyl chloride	ug/m3	0.88 UJ	0.88 UJ	0.88 UJ	0.88 UJ	0.88 UJ	0.88 UJ	0.88 UJ
TO15 E	Bromodichloromethane	ug/m3	1 UJ	1 U	1 U	1 U	1 U	1 U 1.6 UJ	1 U 1.6 U
TO15 E	3romoform	ug/m3	1.6 UJ	1.6 U	1.6 U	1.6 U	1.6 UJ 0,59 U	0.59 U	0.59 U
	3romomethane	ug/m3	0.59 U	0,59 U	0.59 U	0.59 U	10	3.2	1.2
	Carbon disulfide	ug/m3	6.8	0.98	1.3	10 0.96 U	0.96 U	0.96 U	0.96 U
	Carbon tetrachloride	ug/m3	0.96 UJ	0.96 U	0.96 U	0.96 U 0.7 U	0.96 U 0.7 UJ	0.96 U	0.90 U
	Chlorobenzene	ug/m3	0.7 UJ	0.7 U	0.7 U	1.3 U	1.3 UJ	1.3 UJ	1.3 U
	Chlorodibromomethane	ug/m3	1.3 UJ	1.3 U	1.3 U	0.4 U	0.4 U	0.4 U	0.4 U
	Chloroethane	ug/m3	0.4 U	0.4 U	0.4 U	0.4 U 4.6	0.410	17	0.4 U
	Chloroform	ug/m3	210	29	10 0,31 U	0.31 U	0.31 U	0.31 U	0.74 U
	Chloromethane	ug/m3	0.31 U	0.31 U	0.31 U	19	26	8.5	0.51 U
	Cis-1,2-Dichloroethene	ug/m3	2800 EJ	0.6 U	0.60 U	0.69 U	0.69 U	0.69 U	0.69 U
	cis-1,3-Dichloropropene	ug/m3	0.69 UJ	0.69 U 4.2	0.59 U	0.52 U	0.69 U	0.52 U	0.52 U
	Cyclohexane	ug/m3	23	3.8	2.3	2.3	2.6	2.8	5.7
	Dichlorodifluoromethane	ug/m3	0.75 U 0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
	Ethyl acetate	ug/m3 ug/m3	8.3 J	0.92 U 0.62 J	1.8	22	270	180 EJ	1.7
	Ethyl benzene	ug/m3 ug/m3	0.62 UJ	0.62 U	3,6	0.62 U	0.62 U	0.62 U	0.62 U
	Heptane Leves blood by tadions	ug/m3 ug/m3	1.6 UJ	1.6 U	1.6 U	1.6 U	1.6 UJ	1.6 UJ	1.6 U
	Hexachlorobutadiene	ug/m3	5.9	1.00	3,7	0.54 U	0.54 U	0.54 U	0.54 U
	Hexane	ug/m3	2.5 J	0.71 U	0.47 J	0.71 U	0.71 U	0.71 U	0.71 U
	Isooctane	ug/m3	0.55 U	0.71 UJ	0.55 UJ	0.55 UJ	0,55 UJ	0.55 UJ	0.55 UJ
	Methyl Tertbutyl Ether Methylene chloride	ug/m3	71	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U

		ample Delivery Group	C1002059	C1002060	C1002060	C1002060	C1002060	C1002060	C1002060
		Location	A-SS-01	A-SS-02	A-SS-03	B-SS-01	B-SS-02	B-SS-03	F-SS-01
		Sample Date	2/15/2010	2/15/2010	2/15/2010	2/16/2010	2/16/2010	2/16/2010	2/16/2010
		Sample ID	130043A-SS-01	130043A-SS-02	130043A-SS-03	130043B-SS-01	130043B-SS-02	130043B-SS-03	130043F-SS-01
		QC Code	FS						
Analysis	Param Name	Units	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier
TO15	Propylene	ug/m3	0.26 U						
TO15	Styrene	ug/m3	1.6 J	0.65 U	0.69	2.6	0.65 UJ	0.65 UJ	0.61 J
TO15	Tetrachloroethene	ug/m3	400000	4,600	42,000	4,200	1,400	1,700 J	280
TO15	Tetrahydrofuran	ug/m3	0.45 U	0.45 UJ					
TO15	Toluene	ug/m3	19	3	7.7	17	76	46	2.8
TO15	trans-1,2-Dichloroethene	ug/m3	420	0.6 U	0.6 U	0.6 U	5.1	0.6 U	0.6 U
TO15	trans-1,3-Dichloropropene	ug/m3	0.69 UJ	0.69 U					
TO15	Trichloroethene	ug/m3	4400 J	81	19	16000	31000	4100	0.6 J
TO15	Trichlorofluoromethane	ug/m3	0.86 U	1.4	2.1	3.5	53	42	5.7
	Vinyl acetate	ug/m3	0.54 U	0.54 UJ					
TO15	Vinyl bromide	ug/m3	0.67 U						
TO15	Vinyl chloride	ug/m3	0.39 U						
	Xylene, m/p	ug/m3	32	1.8	3.4	92	1200	740 EJ	5.4
	Xylene, o	ug/m3	8 J	0.62 J	1.5	10	150	80	0.88

NOTES:

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Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,

EJ = Estimated; concentration is above the linear range of calibratic

	Sample Delivery Group			2060	C100	2060 T	C100	2060	C1002	2060	C100	02060	C100	2060	C100	2060
	Sample		C100 F-SS		F-SS		K-SS		K-SS			S-03	N-SS		N-S	
		Location Sample Date	2/16/		2/16/		2/16/2		2/16/2			/2010	2/16/		2/16/	2010
		Sample Date Sample ID	1300431		1300431		130043k		130043k			K-SS-03	1300431		1300431	N-SS-02
		QC Code	1300431 F:		F		FS		FS		F	7S	F	S	F	S
A a launda	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Oualifier	Result	Oualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	1.1.1-Trichloroethane	ug/m3	9.9	Quantor	110	- (77		36	`	2100		, 390		53000	
TO15	1,1,2,2-Tetrachloroethane	ug/m3		UJ	110	U	1	UJ	1	Ü	1	UJ	1	ŪJ	1	UJ
TO15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	1.2		1.2		1.2	U	1.2	U	5		1.9		26	
TO15	1.1.2-Trichloroethane	ug/m3	0.83		0.83	U	0.83	U	0.83	U	0.83	UJ	0.83	U	0.83	UJ
TO15	1.1-Dichloroethane	ug/m3	0.62		0.62	Ü	1.9		1.2		35		2.1		10	
TO15	1.1-Dichloroethene	ug/m3	0.6		0.6	U	0.6	U	0.6	U	0.6		0.6		32	
TO15	1.2.4-Trichlorobenzene	ug/m3	1.1	ÜĴ	1.1	UJ	1.1	UJ	1.1		1.1		1.1		1.1	
TO15	1,2,4-Trimethylbenzene	ug/m3	7.4	j	1.2		2.7	J	0.75	UJ	54		2.1		660	
TO15	1.2-Dibromoethane	ug/m3	1.2	UJ	1.2	Ū	1.2		1.2			UJ	1.2		1.2	
TO15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1.1	U	1.1	U	1.1		1.1		1.1		1.1		1.1	
TO15	1,2-Dichlorobenzene	ug/m3	0.92	UJ	0.92		0.92		0.92		0.92		0.92		0.92	
TO15	1,2-Dichloroethane	ug/m3	0.62	U	0.62		0.62		0.62		0.62		0.62		0.62	
TO15	1,2-Dichloropropane	ug/m3	0.7	_	0.7		0.7		0.7			UJ	0.7		0.7	
TO15	1,3,5-Trimethylbenzene	ug/m3	2.7		0.75		0.8		0.75		21		1		380	
TO15	1,3-Butadiene	ug/m3	0.34		0.34		0.34		0.34		0.34		0.34		0.34	
TO15	1,3-Dichlorobenzene	ug/m3	0.92		0.92		0.92		0.92		0.92		0.92		0.92	
TO15	1,4-Dichlorobenzene	ug/m3	0.92		0.92		0.92		0.92		0.92		0.92		0.92 20	
TO15	1,4-Dioxane	ug/m3	1.1:	U	1.1	U	1.1		1.1	U	57	J	9.6		140	
TO15	2-Butanone	ug/m3	12		1.7		6.6		2	T T	26		2.4		31	EJ
TO15	2-Hexanone	ug/m3	1.4	J	1.2	U	1.2	UJ	1.2	U	0,37		64	J	87	Ť
TO15	2-Propanol	ug/m3	59		25		32 0.95		0.75	T T	15		0.75	7	280	
TO15	4-Ethyltoluene	ug/m3	1.8		0.75			J T	1.2		12		1.3		17	
TO15	4-Methyl-2-pentanone	ug/m3	3.1	J	0.75	J	1.2 96	<u>. </u>	32	U	200		110		1100	
TO15	Acetone	ug/m3	300		43 0.48	1.7	0,48	11	0.48	ΓĪ	0.48		0.48		0.48	
TO15	Allyl chloride	ug/m3	0.48	U	0.48		4.3	<u> </u>	0.48	0	67		2.6		9.4	
TO15	Benzene	ug/m3	3.2 0.88		0.42		0.88	III	0.88	III	0.88		0.88		0.88	
TO15	Benzyl chloride	ug/m3		Ü		Ü		Ü	1			UJ		Ū		UJ
TO15	Bromodichloromethane	ug/m3 ug/m3	1.6		1.6		1.6		1.6			UJ	1.6		1.6	UJ
TO15 TO15	Bromoform	ug/m3	0.59		0.59		0.59		0.59		0.59		0,59		0.59	U
TO15	Bromomethane Carbon disulfide	ug/m3	5.6		0.57		14	<u> </u>	1.5	-4	11		6.2		15	
TO15	Carbon tetrachloride	ug/m3	0.96		0.96		0.7	J	0.96	U	0.96	UJ	0.96	U	0.96	UJ
TO15	Chlorobenzene	ug/m3	0.7		0.7		0.7		0.7	U	0.7	UJ	0.7		0.51	
TO15	Chlorodibromomethane	ug/m3	1.3		1.3		1.3		1.3	Ü	1.3	ÚJ	1.3		1.3	UJ
TO15	Chloroethane	ug/m3	0.4		0.4		0.4		0.4	U	0.4	U .	0.4	U	0.4	
TO15	Chloroform	ug/m3	0.94		0.74		20		8.9		23		2.8		15	
TO15	Chloromethane	ug/m3	0.31	Ū	0.31		0.31	U	0.31	Ü	0.31		0.31	U	0.31	
TO15	Cis-1,2-Dichloroethene	ug/m3	0.6		0.6	Ū	1.3		2.8		120		2		0.64	
TO15	cis-1,3-Dichloropropene	ug/m3	0.69	Ū	0.69	U	0.69		0.69		0.69		0.69	U	0.69	
TO15	Cyclohexane	ug/m3	14		0.52	U	0.52	U	0.52	U	16		3.3		0.52	
TO15	Dichlorodifluoromethane	ug/m3	2.4		0.75	U	0.75		9.4		0.75		2		0.75	
TO15	Ethyl acetate	ug/m3	0.92	U	0.92		0.92	U	0.92	U	0.92		0.92		0.73	
TO15	Ethyl benzene	ug/m3	2.5	J	1.1		58		4.3		19		1.9		230	
TOI5	Heptane	ug/m3	8.3		0.46		4		0.62		66		1.5		7.3	
TO15	Hexachlorobutadiene	ug/m3	1.6	UJ	1.6		1.6	UJ	1.6			UJ	1.6			UJ
TO15	Hexane	ug/m3	7.5		0.54		4.1		0.54		56		0.54		0.54	
TO15	Isooctane	ug/m3	0.71		0.71		0.71	-	0.71		0.71		0.71		1.3	
TO15	Methyl Tertbutyl Ether	ug/m3	0.55		0.55		0.55		0.55		0.55		0.55		0.55	
TO15	Methylene chloride	ug/m3	0.53	U	0.53	ĮŬ	0.53	U	0.53	U	0.53	υU	0.53	ĮŪ	0.53	ΙU

	Sam	ple Delivery Group	C10020	60	C100	2060	C100	2060	C1002	2060	C100	2060	C100	2060	C100	02060
ļ	Sam	Location	F-SS-0			S-03	K-S		K-SS	-02	K-S	5-03	N-S	S-01	N-S	S-02
		Sample Date	2/16/20			2010	2/16/	2010	2/16/2	2010	2/16/	2010	2/16/	2010	2/16	/2010
		Sample ID	130043F-S			F-SS-03	130043	K-SS-01	1300436	S-SS-02	1300431	C-SS-03	1300431	N-SS-01	130043	N-SS-02
		OC Code	FS	-	F	S	F	S	F	3	F	S	F	S	F	S
Analysis	Param Name	Units		Oualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
TO15	Propylene	ug/m3	0.26 U	`	0.26	U	0.26	U	0.26	U	0.26		0.26		0.26	
TO15	Styrene	ug/m3	0.65 UJ	J	0.65	U	3.6	J	0.65	U	0.65	UJ	0.87		0.65	
TO15	Tetrachloroethene	ug/m3	110 J		290		280		650		1,500		15,000		9,400	
TO15	Tetrahydrofuran	ug/m3	0.45 UJ	j	0.45	UJ	0.45	UJ	0.45	UJ	0.45		1.7		50	ļ
TO15	Toluene	ug/m3	12		1.4		46		5.1		36	J	2.8		38	
TO15	trans-1,2-Dichloroethene	ug/m3	0.6 U		0.6	U	0.6	U	0.6	U	0.6	U	0.6		0.6	
TO15	trans-1,3-Dichloropropene	ug/m3	0.69 U		0.69	U	0.69	U	0.69	U	0.69	UJ	0.69		0,69	
TO15	Trichloroethene	ug/m3	4.2		0.82		930		490		10000	****	1000		3200	
TO15	Trichlorofluoromethane	ug/m3	2.3		5.5		4.4		37		. 10		1.1		0.86	
TO15	Vinyl acetate	ug/m3	0.54 U.	J	0.54	UJ	0.54		0.54		0.54		0.54		0.54	
TO15	Vinyl bromide	ug/m3	0.67 U		0.67	U	0.67		0.67		0.67		0.67		0.67	
TO15	Vinyl chloride	ug/m3	0.39 U		0.39	U	0.39	υ	0.39	<u>U</u>	0.39		0.39		0.39	·
	Xylene, m/p	ug/m3	14 3		3		220		15		50		5.7		1500	
	Xylene, o	ug/m3	3.8 J		0.53	J	17		1.6		17	J	1.6	J	640	lei

NOTES:

QC Code: FS = Field Sample, FD = Field Duplicate

Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,

EJ = Estimated; concentration is above the linear range of calibratic

	Sampl	e Delivery Group		02060	C100			2060	C100	
		Location		S-03	V-S			S-02	V-SS	
		Sample Date		/2010		2010		/2010	2/18/	
		Sample ID		N-SS-03	130043			V-SS-02	130043	
		QC Code		78	_ F			S Oualifier	Result	S Oualifie
	Param Name	Units	Result	Qualifier	Result	Qualifier	Result 3800	$\overline{}$	27000	Quanne
ГО15	1,1,1-Trichloroethane	ug/m3	640		5500	**		UJ		U
ΓΟ15	1,1,2,2-Tetrachloroethane	ug/m3		U		U	2.1	Ol	12	<u>U</u>
TO15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	3		8.3	**	0.83	U	1.8	
TO15	1,1,2-Trichloroethane	ug/m3	0.83		0.83	U	79		7900	
TO15	1,1-Dichloroethane	ug/m3	0.78		72 54		780		240	EL
TO15	1,1-Dichloroethene	ug/m3	0.6			77		N1	1.1	
TO15	1,2,4-Trichlorobenzene	ug/m3	1.1		1.1				7	
TO15	1,2,4-Trimethylbenzene	ug/m3	3.9		5		16	Ωĵ	1.2	_
TO15	1,2-Dibromoethane	ug/m3		U .	1.2				1.1	
TO15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	1.1		1.1		1.1 0.92		0.92	
TO15	1,2-Dichlorobenzene	ug/m3	0.92		0.92		0.92		0.92	
TO15	1,2-Dichloroethane	ug/m3	0.62		0.62			U ·	0.02	
TO15	1,2-Dichloropropane	ug/m3	0.7		0.7 3.7		13		4.5	
TO15	1,3,5-Trimethylbenzene	ug/m3	1.7						0.34	
TO15	1,3-Butadiene	ug/m3	0.34		0.34		0.34		0.34	
TO15	1,3-Dichlorobenzene	ug/m3	0.92		0.92		0.92		0.92	
TO15	1,4-Dichlorobenzene	ug/m3	0.92		0.92		0.86		10	
TO15	1,4-Dioxane	ug/m3		U	7.5		4.9		2.8	EJ
TO15	2-Butanone	ug/m3	3.4		2.7	ļ 	0.92		2.8	Т
TO15	2-Hexanone	ug/m3	1.3		1.2		21		42	<u> </u>
TO15	2-Propanol	ug/m3	68		1.1	EJ	0.75		6.6	-
TO15	4-Ethyltoluene	ug/m3	1.3		1.1		1000		13	
TO15	4-Methyl-2-pentanone	ug/m3	0.75		30		350		49	
TO15	Acetone	ug/m3	35		0.48	1	0.48		0.48	IT
TO15	Allyl chloride	ug/m3	0.48		1.3		1.6		2.1	-
TO15	Benzene	ug/m3	0.65		0.88		0.88		0.88	TIT
TO15	Benzyl chloride	ug/m3	0,88	U		U		Ü		U
TO15	Bromodichloromethane	ug/m3			1.6		_	UJ	1.6	
TO15	Bromoform	ug/m3	0.59	U	0.59		0.59		0.59	
TO15	Bromomethane	ug/m3	1.9		0.79		9.2		4.1	
TO15	Carbon disulfide	ug/m3 ug/m3	0,96		0.79		0.96		0.96	
TO15	Carbon tetrachloride	ug/m3		7 U	0.7			ŪJ	0.7	
TO15	Chlorobenzene			U	1.3			UJ .	1.3	
TO15	Chlorodibromomethane	ug/m3		U	0.4			U	0.4	
TO15	Chloroethane	ug/m3	0.69		8.7		1.3		40	
TO15	Chloroform	ug/m3	0.03		0.31		0.31	.1	0.31	
TO15	Chloromethane	ug/m3		5 U -	1.8			U	49	
TO15	Cis-1,2-Dichloroethene	ug/m3	0.69		0.69		0.69		0.69	
TO15	cis-1,3-Dichloropropene	ug/m3	0.65		0.52	-	0.52		0.52	
TO15	Cyclohexane Dichlorodifluoromethane	ug/m3	0.75		0.75		2.2		0.75	
	Ethyl acetate	ug/m3	0.73		0.73		1.1		0.92	
TO15 TO15	Ethyl acetate Ethyl benzene	ug/m3	2.8		15		390			EJ
TO15	Heptane	ug/m3	0.79		1.2		3.1		1.8	
TO15	Hexachlorobutadiene	ug/m3		5 U	1.6			UJ	1.6	
TO15	Hexane	ug/m3	0.54		0.54		3.5		0.54	
TO15	Isooctane	ug/m3	0.3		0.71		0.71		0.71	
TO15	Methyl Tertbutyl Ether	ug/m3		5 UJ	0.55		0.55		0.55	
TO15	Methylene chloride	ug/m3	0.5		0.53		0.53		0,53	

					G100	2060	C100	2060	C100	2060
		Sample Delivery Group		2060	C100					
		Location	N-S	S-03	V-S	S-01	V-S		V-S	
		Sample Date	2/16/	/2010	2/18/	2010	2/18/	2010	2/18/	
		Sample ID	130043	N-SS-03	130043	V-SS-01	130043	V-SS-02	130043	V-SS-03
		QC Code	F	S	F	S	F	S	F	
Analysis	Param Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result_	Qualifier
TO15	Propylene	ug/m3	0.26	Ŭ	0.26	U	0.26	U	0.26	
TO15	Styrene	ug/m3	0.65	Ū	0.65	Ū	0.65	UJ	0.65	
TO15	Tetrachloroethene	ug/m3	1,200		1,100		780	J	1,500	
TO15	Tetrahydrofuran	ug/m3	18		0.45	UJ	0.45	UJ	0.45	UJ
TO15	Toluene	ug/m3	2.8		5.1		320		12	
TO15	trans-1,2-Dichloroethene	ug/m3	0.6	U	0.6	U	0.6	U	2.9	
TO15	trans-1,3-Dichloropropene	ug/m3	0.69		0.69	Ū	0.69	U	0.69	U
TO15	Trichloroethene	ug/m3	80		1000		43	J	800	
TO15	Trichlorofluoromethane	ug/m3	1.2		3		2.6		2.7	
TO15	Vinyl acetate	ug/m3	0.54		0.54	UJ	0.54	UJ	0.54	UJ
TO15	Vinyl bromide	ug/m3	0.67		0.67	U	0.67	U	0.67	U
	Vinyl chloride	ug/m3	0.39		0.39	U	0.39	U	0.39	U
TO15	1	ug/m3	12		59		1500		200	EJ
TO15	Xylene, m/p		2	 	10		360		53	EJ
TO15	Xylene, o	ug/m3		J	10			<u>. </u>		

NOTES:

QC Code: FS = Field Sample, FD = Field Duplicate

Qualifiers: U = Non-detected, UJ = Non-detected estimated, J = Estimated,

EJ = Estimated; concentration is above the linear range of calibratic

DATA USABILITY SUMMARY REPORT MAY 2010 SOIL SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

1.0 INTRODUCTION

Four soil samples were collected at the New Cassel Industrial Area in Westbury, New York in May 2010 and submitted for off-site laboratory analysis. Samples were analyzed by CHEMTECH located in Mountainside, New Jersey. Results were reported in the following Sample Delivery Group (SDG): B2399.

A listing of samples included in this Data Usability Summary Report is presented in Table 1. A summary of the analytical results is presented in Table 2. Samples were analyzed by the following method:

• Volatile organic compounds (VOCs) by USEPA Method 8260B

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. The following laboratory or data validation qualifiers are used in the final data presentation.

U =target analyte is not detected at the reported detection limit J =concentration is estimated

UJ = target analyte is not detected at the reported detection limit and is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 VOLATILE ORGANIC COMPOUNDS (VOCS)

VOC - Initial Calibration

The initial calibration exceeded the percent relative standard deviation limit of 20 for the compound chloroethane (25). Chloroethane was not detected in any of the associated samples, and the reporting limits were qualified as estimated (UJ).

VOC- Tentatively Identified Compounds

Naphthalene was identified as a tentatively identified compound (TIC) in sample 130043V-DP511 and was qualified as 'NJ'.

Page **1** of **3**

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Michael Washburn

Date: 06/23/2010

Reviewed by Chris Ricardi, NRCC-EAC

Quality Assurance Officer

Date: 7/21/2010

TABLE 1 – SAMPLE AND ANALYTICAL SUMMARY DATA USABILITY SUMMARY REPORT MAY 2010 SOIL SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

					Class	VOC
					Method	SW8260B
					Fraction	Т
SDG	Media	Location	Sample ID	Sample Date	QC Code	
B2399	Soil	V-DP-1	130043V-DP125	5/19/2010	FS	Χ
B2399	Soil	V-DP-2	130043V-DP224	5/19/2010	FS	Χ
B2399	Soil	V-DP-4	130043V-DP410	5/19/2010	FS	Х
B2399	Soil	V-DP-5	130043V-DP511	5/19/2010	FS	Χ

NOTES: QC Code: FS = Field Sample Media: SV = Soil

Vapor

Sample ID: IA = Indoor Air, AA = Ambient Air, SS = Sub-slab

TABLE 2 - FINAL RESULTS DATA USABILITY SUMMARY REPORT MAY 2010 SOIL SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

		1	V/ DD 04	V DD 00	V DD 04	V DD 05
		Location		V-DP-02	V-DP-04	V-DP-05
		Sample Date	5/19/2010	5/19/2010	5/19/2010	5/19/2010
						130043V-DP511
		Qc Code	FS	FS	FS Result Qualifier	FS ·
Analysis I		Units				
	1,1,1-Trichloroethane	ug/Kg	5.5 U	5.6 U	8.1	4.1 U
	1,1,2,2-Tetrachloroethane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	1,1,2-Trichloroethane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
1	1,1-Dichloroethane	ug/Kg	1.7 J	5.6 U	3.1	4.1 U
	1,1-Dichloroethene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	1,2,4-Trichlorobenzene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	1,2-Dibromo-3-chloropropane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	1,2-Dibromoethane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	1,2-Dichlorobenzene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	1,2-Dichloroethane	ug/Kg	5.5 U	5.6 U	· 3 U	4.1 U
SW8260B	1,2-Dichloropropane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	1,3-Dichlorobenzene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
1	1,4-Dichlorobenzene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	2-Butanone	ug/Kg	27 U	.28 U	15 U	20 U
SW8260B	2-Hexanone	ug/Kg	27 U	28 U	15 U	20 U
SW8260B	4-Methyl-2-pentanone	ug/Kg	27 U	28 U	15 U	· 20 U
SW8260B	Acetic acid, methyl ester	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	Acetone	ug/Kg	19 J	23 J	15 U	20 U
SW8260B	Benzene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	Bromodichloromethane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	Bromoform	ug/Kg	5.5 U	5.6 U	. 3 U	4.1 U
	Bromomethane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	Carbon disulfide	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	Carbon tetrachloride	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	Chlorobenzene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	Chlorodibromomethane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
SW8260B	Chloroethane	ug/Kg	5.5 UJ	5.6 UJ	3 UJ	4.1 UJ
SW8260B	Chloroform	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
1	Chloromethane	ug/Kg	5.5 U	5,6 U	3 U	4.1 U
	Cis-1,2-Dichloroethene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	cis-1,3-Dichloropropene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	Cyclohexane	ug/Kg	5.5 U	5.6 U	. 3 U	4.1 U
1	Dichlorodifluoromethane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	Ethyl benzene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	Isopropylbenzene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	Methyl cyclohexane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	Methyl Tertbutyl Ether	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	Methylene chloride	ug/Kg	3.6 J	3.9 J	3 U	1.2 J
SW8260B		ug/Kg	5.5 U	5.6 U	3 U	4.1 U
1 1	Tetrachloroethene	ug/Kg	5.5 U	5.6 U	1.2 J	4.1 U
SW8260B		ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	trans-1,2-Dichloroethene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	trans-1,3-Dichloropropene	ug/Kg ug/Kg	5.5 U	5.6 U	3 U	4.1 U
1 1	Trichloroethene	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
1 1	Trichlorofluoromethane	ug/Kg	5.5 U	5.6 U	3 U	4.1 U
1	Vinyl chloride	ug/Kg ug/Kg	5.5 U	5.6 U	3 U	4.1 U
1 1	Xylene, m/p	ug/Kg	11 U	11 U	5.9 U	8.2 U
SW8260B		ug/Kg ug/Kg	5.5 U	5.6 U	3 U	4.1 U
	Identified Compounds (TICs)					
	Naphthalene	ug/Kg	[[1	1.6 NJ
00000000	Hapminaiono		1	L	L	