BROWN AND CALDWELL

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| Subject: | Phase II Soil Vapor Intrusion Evaluation | | |

Oswego (West Utica St.) Former MGP Site, Oswego, NY

Phase II soil vapor intrusion (SVI) activities were implemented at the Oswego (West Utica St.) Former Manufactured Gas Plant (MGP) site (hereinafter referred to as the "site") to further evaluate the nature and extent of MGP-related constituents detected during Phase I SVI sampling (soil vapor) and to assess the potential for soil vapor to impact indoor air in the buildings located on the site. The work plan for this evaluation was provided to the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) in a letter dated February 29, 2008, following the NYSDEC's request to conduct the evaluation in an e-mail to National Grid dated February 6, 2008. The work plan was subsequently modified by a March 6, 2008 letter from National Grid in response to comments from the NYSDOH in a letter dated March 4, 2008, and approved by NYSDEC/DOH on March 7, 2008. In accordance with the work plan, this technical memorandum is being submitted to the NYSDEC and the NYSDOH in order to document Phase II activities and results.

Pursuant to the NYSDEC/DOH-approved Remedial Investigation Work Plan, Former Manufactured Gas Plant Site, Oswego (West Utica St.), New York (Brown and Caldwell Associates, June 2006; Revised October 2006), SVI activities for the site were to be performed in a phased approach. Based on the results of the Phase I soil vapor samples collected on July 17, 2007 (elevated levels of naphthalene detected in the soil vapor samples), Phase II of the SVI activities was initiated. The Phase I data were previously provided to the NYSDEC/NYSDOH and the property owners in letters dated October 12, 2007, and were also included in the Data Summary Report, Remedial Investigation, Oswego (West Utica St.) Former MGP Site (Brown and Caldwell Associates, March 2008).

Provided below are: a description of the methods and procedures used during field activities and sample analyses; a discussion of the results and findings of the data specific to each property that was sampled; and conclusions and recommendations related to the evaluation of soil vapor intrusion at the site.

Methods and Procedures

In accordance with the work plan for Phase II SVI activities, the following samples were collected at the properties described below:

- Ontario Lakeside Medical Associates: Sub-slab vapor sample (SS-4); indoor air sample (IA-4), and duplicate (DUP031808-IA)
- Sons of Italy Lodge: Sub-slab vapor sample (SS-5), indoor air sample (IA-5), and duplicate (DUP031808-SS)
- **Car Shop:** Sub-slab vapor sample (SS-1)
- Advantage Carpets: Sub-slab vapor sample (SS-2) and indoor air sample (IA-2)
- Taylor Rental: Sub-slab vapor sample (SS-3)

In concurrence with NYSDEC/DOH, indoor air sampling was not conducted within the Car Shop building or the Taylor Rental building due to the use/presence of materials that are potential sources of volatile organic compounds (VOCs) associated with the on-going business operations in these buildings (e.g., auto repair and equipment rental/maintenance operations, respectively). As specified in the work plan, a phased approach was followed to determine whether it was appropriate to sample indoor air at the Taylor Rental building, due to the various gasoline powered equipment stored throughout the building interior. Based on the results of the expedited laboratory analysis for a sub-slab vapor sample collected at this location and the building inventory, indoor air sampling was not deemed appropriate for the purposes of evaluating soil vapor intrusion for this location.

Preliminary Activities

Prior to initiating sampling activities for the Phase II SVI evaluation, an Indoor Air Quality Questionnaire and Building Inventory were completed by Brown and Caldwell (BC), on behalf of National Grid, for the Ontario Lakeside Medical Associates, Sons of Italy, Advantage Carpets, and Taylor Rental buildings to identify and minimize conditions that may interfere with the planned activities. The questionnaires and inventories were completed on March 13 and 14, 2008. The form provided in Appendix B of NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, October 2006)* was used for these activities. Completed copies of the forms and associated photo documentation of the building inventories are provided in Attachment A.

Temporary sub-slab vapor probes were installed by BC personnel on March 17, 2008 at each property by advancing a 3/8-inch diameter hole through the concrete slab using a hammer drill, inserting a section of food-grade Teflon[®] tubing through the hole, and sealing the annular space using Permagum[®]. The tubing inlet was positioned approximately one to two inches below the slab, and the end of the tubing above the slab was capped.

Sampling Activities

The sub-slab vapor, indoor air, and the outdoor (ambient) air samples were collected on March 18, 2008 by BC personnel using 6-liter Summa[®] passivated stainless steel canisters. The Summa[®] canisters were batch-certified as clean by the laboratory for the canisters used for sub-slab vapor and were individually-certified for the canisters used for outdoor and indoor air. Flow-controllers were provided by the laboratory and were pre-calibrated for the desired flow rate (e.g., approximately 0.2 liters per minute for the sub-slab vapor samples) or duration of sample collection (e.g., approximately eight hours for the indoor and ambient air samples). Samples were collected in accordance with the approved appendices from the draft document titled *Standard Operating Procedures for Soil Vapor Intrusion Evaluations at National Grid MGP Sites in New York State (O'Brien & Gere, September 2007)*. Prior to collecting a sample of sub-slab vapor from each

location, the temporary probe was connected to a vacuum pump and approximately one to three volumes of air were evacuated from the tubing at a rate of approximately 0.2 liters per minute. Copies of the field sampling forms used during the event are provided in Attachment B.

Sample Analysis

Samples were analyzed using the United States Environmental Protection Agency (USEPA) Method TO-15, including n-alkanes and tentatively identified compounds (TICs). Appropriate quality assurance/quality control (QA/QC) samples were also collected, including a duplicate sample for sub-slab vapor and indoor air.

The sample analyses were conducted by TestAmerica Laboratories of Knoxville, Tennessee. TestAmerica Laboratories is certified under the NYSDOH Environmental Laboratory Approval Program (ELAP) ASP/CLP analytical methods. Laboratory data reports (CD-ROM) for the analyses performed by TestAmerica are provided in Attachment C. Preliminary (non-validated) data was forwarded to the NYSDOH and the NYSDEC in an e-mail from BC dated April 15, 2008.

The results for the SVI samples were forwarded to a data validator for the preparation of a Data Usability Summary Report (DUSR), which is provided along with the laboratory reports in Attachment C. The DUSR was received on May 9, 2008.

Weather Conditions

The temperature ranged from a low of 27 to a high of 42 degrees Fahrenheit throughout the sampling event. The wind was slight to moderate out of the east-southeast, ranging from 5 to 12 miles per hour and trace amounts of precipitation occurred in the afternoon.

Results and Findings

The data associated with the Phase II SVI sampling program are summarized in Table 1. Results from the sub-slab vapor and indoor air samples were compared to typical indoor air concentrations expected for non-residential settings, as provided in the *Guidance for Evaluating Vapor Intrusion in New York State (NYSDOH, October 2006)*. As recommended by the NYSDOH, typical indoor air concentrations in non-residential settings are the 90th percentile values from the USEPA Building Assessment and Survey Evaluation (BASE). Note that if sub-slab vapors were migrating into the building, the resulting concentrations in the building would be expected to be substantially less than those beneath the slab due to attenuation as vapor migrates from the Subsurface into the building. In addition to the comparisons noted above, the concentrations from the Phase II SVI samples were compared to the USEPA target indoor air concentrations for non-residential settings as provided in the draft document entitled *Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (USEPA, November 2002)*.

The sub-slab vapor, indoor air, and outdoor air samples were analyzed for a list of compounds that include compounds that can potentially be related to MGP operations as listed in the NYSDOH guidance document referenced above (NYSDOH, October, 2006), as well as numerous compounds that are not associated with MGPs. The analyte compounds listed below have been found to be potentially associated with MGP residuals, although each can be associated with other sources as well, in particular petroleum related sources.

- Benzene
- Ethylbenzene
- Toluene

- Xylenes
- Naphthalene
- 1,2,4-Trimethylbenzene
- Tetramethylbenzenes
- Thiopenes
- Indene
- Indane

Based on a review of available historical information (primarily Sanborn Fire Insurance Maps), the former Oswego MGP employed the coal carbonization process which did not use petroleum feed stock; no information has been identified to indicate that the carbureted water gas process, which required petroleum feed stock, was used at the site. If the carbureted water gas process was used at the site, the following alkane compounds would be included in the list above: n-Nonane, n-Decane, n-Undecane, and n-Dodecane.

Discussions of the results and findings according to each property sampled are provided below. Draft letters for transmitting the data to each property owner were prepared and submitted to the NYSDOH and the NYSDEC for review on May 23, 2008. These letters were edited based on comments provided by NYSDOH and NYSDEC and sent to the property owners by June 5, 2008. For reference, an example of the letter format used for reporting the results to the property owners is provided as Attachment D.

The Car Shop

A total of two (2) samples were collected to evaluate potential soil vapor impacts associated with The Car Shop building. The samples included the following:

- A sub-slab vapor sample (SS-1) from beneath the building floor slab; and
- An outdoor air sample (OA-1) located near the southern wall of the building.

Approximate locations of these samples are shown on Figure 1. Note that the outdoor air sample was collected to help evaluate site-specific background outdoor air concentrations. The concentrations in sub-slab vapor sample SS-1, collected from beneath the building, are below the typical indoor air concentrations for non-residential properties (NYSDOH, October 2006), as well as measured outdoor air concentrations, indicating that the sub-slab vapors do not impact the indoor air within the building. The concentrations are also below the USEPA Target Indoor Air Concentrations (non-residential) (USEPA, November 2002). As noted above, if sub-slab vapors were migrating into the building, the resulting concentrations in the building would be expected to be substantially less than those beneath the slab due to attenuation as vapor migrates from the subsurface into the building.

Advantage Carpets

A total of three (3) samples were collected to evaluate potential soil vapor impacts associated with the Advantage Carpet building. The samples included the following:

- A sub-slab vapor sample (SS-2) from beneath the floor slab;
- An outdoor air sample (OA-2) located near the northwest corner of the building; and
- An indoor air sample (IA-2) located near SS-2, within the building.

Approximate locations of these samples are shown on Figure 1. Note that the outdoor air sample was collected to help evaluate site-specific background outdoor air concentrations.

The concentrations of several constituents in sub-slab vapor sample SS-2 are above the typical indoor air concentrations for non-residential properties (NYSDOH, October 2006). However, the concentrations of these same constituents are higher in the indoor air based on the results from sample IA-2, indicating that the source of both the indoor air and sub-slab vapor concentrations are likely operations and materials within the building. Advantage Carpets is a carpet and flooring distributor and showroom, and many of the materials and activities in the building contribute VOCs to the indoor air, for example carpet adhesives contain toluene and other constituents (see indoor air inventory photo log in Attachment A). The only exception where constituent concentrations are not higher in the indoor air as compared to the sub-slab vapor are for the compounds chloroform and 1,2-dichloroethane, which were detected in the sub-slab vapor but not in the indoor air. Neither chloroform or 1,2-dichloroethane are considered as being related to former MGP operations.

Taylor Rental

A total of two (2) samples were collected to evaluate potential soil vapor impacts associated with the Taylor Rental building. The samples included the following:

- A sub-slab vapor sample (SS-3) from beneath the floor slab; and
- An outdoor air sample (OA-3) located near the northeast corner of the building;

Approximate locations of these samples are shown on Figure 1. Note that the outdoor air sample was collected to help evaluate site-specific background outdoor air concentrations. The concentrations in sub-slab vapor sample SS-3, collected from beneath the Taylor Rental portion of the building, are below typical indoor air concentrations for non-residential properties (NYSDOH, October 2006), and are also below the USEPA Target Indoor Air Concentrations (non-residential) (USEPA, November, 2002), indicating that the sub-slab vapors do not impact the indoor air within the building. As noted above, if sub-slab vapors were migrating into the building, the resulting concentrations in the building would be expected to be substantially less than those beneath the slab due to attenuation as vapor migrates from the subsurface into the building.

Ontario Lakeside Medical Associates

A total of three (3) samples were collected to evaluate potential soil vapor impacts associated with the Ontario Lakeside Medical Associates building. The samples included the following:

- A sub-slab vapor sample (SS-4) from beneath the basement floor slab of the building;
- An indoor air sample (IA-4) located near SS-4, within the basement of the building (a duplicate sample, DUP031808-IA, was also collected at this same location at the same time); and
- An outdoor air sample (OA-4) located near the southern wall of the building.

Approximate locations of these samples are shown on Figure 1. Note that the outdoor air sample was collected to help evaluate site-specific background outdoor air concentrations.

The concentrations in sub-slab vapor sample SS-4, collected from beneath the building, and indoor air sample IA-4, collected from within the basement of the building, are below typical indoor air concentrations for

non-residential properties (NYSDOH, October 2006). These concentrations are also below the USEPA Target Indoor Air Concentrations (non-residential) (USEPA, November, 2002), with the exception of trichloroethene (TCE) in SS-4, which is slightly above this criterion. Note that TCE, which is not considered an MGP-related constituent, was not detected in the in the indoor air sample (IA-4), but was detected in outdoor air sample (OA-4), at a slightly higher concentration than SS-4. The concentrations in the sub-slab vapors are typically less than in the indoor air; therefore, the source of the concentrations in the indoor air are indoor sources (e.g., products used and stored indoors [see indoor air inventory photo log in Attachment A]) and/or due to outdoor sources, and not from soil vapor. This assessment indicates that the sub-slab vapors do not impact the indoor air within the building.

Sons of Italy Lodge

A total of three (3) samples were collected to evaluate potential soil vapor impacts associated with the Sons of Italy Lodge building. The samples included the following:

- A sub-slab vapor sample (SS-5) from beneath the building floor slab (a duplicate sample, DUP031808-SS, was also collected at this same location at the same time);
- An indoor air sample (IA-5) located near SS-5, within the building; and
- An outdoor air sample (OA-5) located near the western wall of the building.

Approximate locations of these samples are shown on Figure 1. Note that the outdoor air samples were collected to help evaluate site-specific background outdoor air concentrations.

The concentrations in sub-slab vapor sample SS-5, collected from beneath the building, and indoor air sample IA-5, collected from within the building, are below typical indoor air concentrations for non-residential properties (NYSDOH, October 2006), and are also below the USEPA Target Indoor Air Concentrations (non-residential) (USEPA, November, 2002). As described above, if sub-slab vapors were migrating into the building, the resulting concentrations in the building would be expected to be substantially less than those beneath the slab due to attenuation as vapor migrates from the subsurface into the building. A comparison of the sub-slab vapor and indoor air concentrations do not indicate that the sub-slab vapors are a source of constituents in indoor air in this building. This assessment indicates that the sub-slab vapors do not impact the indoor air within the building.

Conclusions and Recommendations

Based on a review of the Phase II SVI data and the findings discussed above, it does not appear that intrusion of soil vapors related to subsurface MGP-residuals into buildings is a concern at this site. The findings indicate that sub-slab vapors are not impacting indoor air in the buildings described above and that no further evaluation of the potential for impacts from soil vapor is required at this time.

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TABLES



| | | USEPA Target | | Car | Shop | | Advantage Carpets | | Taylor | Rental | | Ontario Medica | Assocaiates | |
|----------------------------------------|--------------------------------------------|-------------------------------------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | Typical Indoor | Indoor Air | Location: | SS-1 | 0A-1 | SS-2 | IA-2 | OA-2 | SS-3 | OA-3 | SS-4 | IA-4 | DUP031808-IA | OA-4 |
| | Air Concentration (ug/m ³) (a) | Concentrations (ug/m ³) | Date: | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 |
| Compound | Non-residential | Non-residential (b) | Units | (µg/m ³) | (µg/m ³) | (ug/m ³) | (µa/m ³) | (µg/m ³) | (µg/m ³) | (ug/m ³) | (µg/m ³) | (µa/m ³) | (ug/m ³) | (ug/m ³) |
| trans-1.3-Dichloropropene | < 1.3 | 20 | • | 1.3 U | 0.36 U | 3.6 UD | 3.6 UD | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.63 UD | 0.36 U | 0.36 U |
| 1.2-Dichloro-1.1.2.2-tetrafluoroethane | < 6.8 | NE | | 0.24 J | 0.22 J | 5.6 UJD | 5.6 UJD | 0.25 J | 0.24 J | 0.56 UJ | 0.27 J | 0.97 UJD | 0.21 J | 0.56 UJ |
| Acetone | 98.9 | 350 | | 14 | 13 U | 48 UD | 120 UD | 34 | 14 | 31 | 15 | 29 UD | 28 | 27 |
| 1.4-Dioxane | NE | NE | | 0.72 U | 0.72 U | 7.2 UD | 7.2 UD | 0.72 U | 0.72 U | 0.72 U | 0.72 U | 1.3 UD | 0.72 U | 0.72 U |
| Ethylbenzene | 5.7 | 220 | | 0.35 U | 2 | 8.2 D | 52 D | 0.84 | 0.38 | 0.6 | 0.35 U | 0.58 JD | 0.35 U | 0.52 |
| Trichlorofluoromethane | 18.1 | 700 | | 2.2 | 3.1 | 3.4 JD | 3.3 JD | 2.9 J | 1.5 | 2 | 2.5 | 2.8 D | 2.7 | 2.4 |
| n-Heptane | NE | NE | | 0.82 U | 1.7 | 14 D | 72 D | 0.82 | 0.25 J | 0.5 J | 0.23 J | 1.1 JD | 0.82 U | 0.54 J |
| Hexachlorobutadiene | < 6.8 | 11 | | 4.3 U | 4.3 U | 43 UD | 42 UD | 4.3 U | 4.3 U | 4.3 U | 4.3 U | 7.4 UD | 4.3 U | 4.3 U |
| n-Hexane | 10.2 | 200 | | 0.7 U | 5.7 | 36 D | 150 D | 1.4 | 0.49 J | 0.89 | 0.33 J | 1.7 JD | 0.51 J | 0.62 J |
| 2-Hexanone | NE | NE | | 0.82 U | 0.82 U | 8.2 UD | 8.1 UD | 1.5 | 0.82 U | 0.93 | 0.82 U | 2 D | 0.82 U | 0.82 U |
| 2,2,4-Trimethylpentane | NE | NE | | 0.93 U | 3 | 12 D | 69 D | 0.88 J | 0.28 J | 0.73 J | 0.36 J | 0.52 JD | 0.93 U | 0.74 J |
| Isopropyl alcohol | NE | 250 | | 0.26 J | 0.8 J | 5.4 JD | 100 D | 1.9 J | 0.37 J | 0.66 J | 1.7 J | 19 D | 19 | 1.6 J |
| Isopropylbenzene | NE | 400 | | 0.79 U | 0.79 U | 7.9 UD | 7.8 UD | 0.79 U | 0.79 U | 0.79 U | 0.79 U | 1.4 UD | 0.79 U | 0.79 U |
| tert-Butyl alcohol | NE | NE | | 0.086 J | 0.14 J | 24 UD | 0.67 JD | 1.1 J | 0.089 J | 0.5 J | 0.13 J | 0.24 JD | 0.34 J | 0.17 J |
| Methylene chloride | 10.0 | 520 | | 0.99 U | 59 | 8.5 UD | 12 UD | 0.94 U | 1.9 U | 1.8 U | 1.2 U | 2.7 UD | 2.9 | 1.6 U |
| 2-Methylnaphthalene | NE | 70 | | 5.8 U | 5.8 U | 5.8 U | 58 UD | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 10 UD | 5.8 U | 5.8 U |
| Naphthalene | 5.1 | 3.0 | | 1 U | 1 U | 10 UD | 6.2 JD | 1 U | 1.8 | 1 U | 1 U | 1.8 UD | 1 U | 1 U |
| Benzene | 9.4 | 31 | | 0.26 U | 3.2 | 18 D | 77 D | 2.5 | 5 | 1.4 | 0.44 | 1.3 D | 0.67 | 1.5 |
| n-Octane | 4.5 | NE | | 0.75 U | 0.75 | 2.3 JD | 14 D | 0.28 J | 0.75 U | 0.21 J | 0.75 U | 0.47 JD | 0.75 U | 0.75 U |
| Pentane | NE | NE | | 1.2 U | 6 | 96 D | 270 D | 2.4 | 0.92 J | 1.7 | 0.91 J | 2.3 D | 1.8 | 1.2 |
| Styrene | 1.9 | 1000 | | 0.34 U | 0.33 J | 3.4 UD | 3.4 UD | 0.43 | 0.22 J | 0.34 U | 0.34 U | 0.69 D | 0.34 U | 0.17 J |
| 1,1,2,2-Tetrachloroethane | NE | 4.2 | | 0.55 U | 0.55 U | 5.5 UD | 5.5 UD | 0.41 J | 0.55 U | 0.55 U | 0.55 U | 0.96 UD | 0.55 U | 0.96 |
| Tetrachloroethene | 15.9 | 81 | | 0.54 U | 0.33 J | 1.3 JD | 5.4 UD | 0.33 J | 0.54 U | 0.32 J | 0.26 J | 0.94 UD | 0.54 U | 0.62 |
| Toluene | 43.0 | 400 | | 0.3 U | 14 | 64 D | 460 D | 3.6 | 3.7 | 2.4 | 27 | 2.2 JD | 0.16 J | 2.1 |
| 1,2,4-Trichlorobenzene | < 6.8 | 200 | | 3 U | 3 U | 30 UD | 29 UD | 3 U | 3 U | 3 U | 3 U | 5.2 UD | 3 U | 3 U |
| 1,1,1-Trichloroethane | 20.6 | 2200 | | 0.33 J | 0.34 J | 4.4 UD | 4.3 UD | 0.12 J | 7.9 | 0.07 J | 0.32 J | 0.19 JD | 1.6 J | 0.44 U |
| 1,1,2-Trichloroethane | < 1.5 | 15 | | 0.44 U | 0.44 U | 4.4 UD | 4.3 UD | 0.44 U | 0.44 U | 0.44 U | 0.44 U | 0.76 UD | 0.44 U | 0.44 U |
| Trichloroethene | 4.2 | 2.2 | | 0.21 U | 0.21 U | 3.6 D | 7.8 D | 0.21 U | 0.21 U | 0.21 U | 2.5 | 0.37 UD | 0.21 U | 3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.5 | 30000 | | 0.7 | 0.82 | 6.1 UD | 6.1 UD | 1 | 0.77 | 0.82 | 0.8 | 0.92 JD | 0.9 | 0.94 |
| 1,2,4-Trimethylbenzene | 9.5 | 6.0 | | 0.39 U | 2.1 | 7.4 D | 61 D | 0.65 | 0.52 | 0.3 J | 0.39 U | 0.51 JD | 0.39 U | 0.39 U |
| 1,3,5-Trimethylbenzene | 3.7 | 6.0 | | 0.39 U | 0.56 | 2.4 JD | 15 D | 0.15 J | 0.27 J | 0.39 U | 0.39 U | 0.68 UD | 0.39 U | 0.39 U |
| Vinyl chloride | < 1.9 | 28 | | 0.2 U | 0.2 U | 2 UD | 2 UD | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.36 UD | 0.2 U | 0.2 U |
| o-Xylene | 7.9 | 7000 | | 0.35 U | 3.1 | 11 D | 70 D | 0.98 | 0.71 | 0.62 | 0.35 U | 0.53 JD | 0.35 U | 0.48 |
| 1-Methylnaphthalene | NE | NE | | 5.8 U | 5.8 U | 5.8 UD | 58 UD | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 10 UD | 5.8 U | 5.8 U |
| Methyl tert-butyl ether | 11.5 | 3000 | | 1.4 U | 1.4 U | 14 UD | 14 UD | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.5 UD | 1.4 U | 1.4 U |
| n-Decane | 17.5 | NE | | 2.3 U | 1.2 J | 23 UD | 18 JD | 1.3 J | 0.54 J | 0.6 J | 2.3 U | 1.1 JD | 2.3 U | 2.3 U |
| n-Dodecane | 15.9 | NE | | 2.8 U | 2.8 U | 28 UD | 19 JD | 0.37 J | 2.8 U | 2.8 U | 2.8 U | 0.61 JD | 2.8 U | 2.8 U |
| n-Undecane | 22.6 | NE | | 2.6 U | 0.18 J | 1.8 JD | 27 D | 2.6 U | 1.2 J | 0.24 J | 2.6 U | 0.9 JD | 2.6 U | 2.6 U |
| Nonane | 7.8 | NE | | 1 U | 0.77 J | 10 UD | 12 D | 0.35 J | 0.2 J | 0.26 J | 1 U | 0.5 JD | 1 U | 0.19 J |
| m-Xylene & p-Xylene | 22.2 | 7000 | | 0.35 U | 7.6 | 32 D | 200 D | 2.7 | 1.6 | 2 | 0.35 U | 1.6 D | 0.35 U | 1.4 |
| Bromodichloromethane | NE | 14 | | 0.54 U | 0.54 U | 5.4 UD | 5.3 UD | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.93 UD | 0.54 U | 0.54 U |
| 1,2-Dibromoethane (EDB) | < 1.5 | 0.20 | | 0.61 U | 0.61 U | 6.1 UD | 6.1 UD | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 1.1 UD | 0.61 U | 0.61 U |
| 2-Butanone (MEK) | 12.0 | 1000 | | 0.82 J | 1.8 | 4.4 JD | 31 D | 10 | 1.5 | 6.4 | 1.5 | 5.2 D | 2.3 | 3.7 |
| 4-Methyl-2-pentanone (MIBK) | 6.0 | 80 | | 0.82 U | 0.82 U | 8.2 UD | 13 D | 3.8 | 0.82 U | 0.84 | 0.82 U | 1.3 JD | 0.82 U | 0.82 U |
| Vinyl bromide | NE | NE | | 0.35 U | 0.35 U | 3.5 UD | 3.5 UD | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.61 UD | 0.35 U | 0.35 U |
| n-Butane | NE | NE | | 0.83 | 22 | 250 D | 660 D | 9 | 2.1 | 4.2 | 3.3 | 6.2 D | 4.9 | 4.3 |
| Bromoform | NE | 220 | | 0.83 U | 0.83 U | 8.3 UD | 8.2 UD | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 1.4 UD | 0.83 U | 0.83 U |
| Bromomethane | < 1.7 | 5.0 | | 0.31 U | 0.31 U | 3.1 UD | 3.1 UD | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.54 UD | 0.31 U | 0.31 U |



| | | USEPA Target | | Car | Shop | ļ | Advantage Carpets | | Taylor | Rental | | Ontario Medica | al Assocaiates | |
|--------------------------|--------------------------------------------|-------------------------------------|-----------|-----------|-----------|-----------|-------------------|-----------|-----------|-----------|-----------|----------------|----------------|-----------|
| | Typical Indoor | Indoor Air | Location: | SS-1 | OA-1 | SS-2 | IA-2 | OA-2 | SS-3 | OA-3 | SS-4 | IA-4 | DUP031808-IA | OA-4 |
| | Air Concentration (µg/m ³) (a) | Concentrations (µg/m ³) | Date: | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 |
| Compound | Non-residential | Non-residential (b) | Units: | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) |
| Indene | NE | NE | | 0.76 U | 0.76 U | 0.76 UD | 7.5 UD | 0.76 U | 0.76 U | 0.76 U | 0.76 U | 1.3 UD | 0.76 U | 0.76 U |
| 1,3-Butadiene | < 3.0 | 0.87 | | 0.35 U | 0.35 U | 3.5 UD | 3.5 UD | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.62 UD | 0.35 U | 0.35 U |
| 4-Ethyltoluene | NE | NE | | 0.79 U | 0.45 J | 2.4 JD | 17 D | 0.26 J | 0.79 U | 0.79 U | 0.79 U | 1.4 UD | 0.79 U | 0.79 U |
| Thiophene | NE | NE | | 0.28 U | 0.28 U | 0.28 UD | 2.7 UD | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.48 UD | 0.28 U | 0.28 U |
| Carbon disulfide | 4.2 | 700 | | 0.064 J | 0.08 J | 1.1 JD | 0.73 JD | 0.043 J | 0.35 J | 0.055 J | 0.061 J | 0.085 JD | 0.62 U | 0.22 J |
| Carbon tetrachloride | < 1.3 | 16 | | 0.49 J | 0.93 | 5 UD | 5 UD | 1 J | 0.5 U | 0.9 | 0.7 | 0.74 JD | 0.84 | 1.1 |
| Chlorobenzene | < 0.9 | 60 | | 0.37 U | 0.37 U | 3.7 UD | 3.7 UD | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 0.64 UD | 0.37 U | 0.37 U |
| 1,2,3-Trimethylbenzene | NE | NE | | 0.39 U | 0.39 U | 4.1 D | 7.7 D | 0.39 U | 0.39 U | 0.39 U | 0.39 U | 0.68 UD | 0.39 U | 0.39 U |
| Dibromochloromethane | NE | 10 | | 0.68 U | 0.68 U | 6.8 UD | 6.8 UD | 0.68 U | 0.68 U | 0.68 U | 0.68 U | 1.2 UD | 0.68 U | 0.68 U |
| Chloroethane | < 1.1 | 10000 | | 0.21 U | 0.21 U | 2.1 UD | 2.1 UD | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.37 UD | 0.21 U | 0.21 U |
| Chloroform | 1.1 | 11 | | 0.39 U | 0.39 U | 2 JD | 3.9 UD | 0.39 U | 0.39 U | 0.11 J | 0.69 | 0.2 JD | 0.17 J | 2.3 |
| Chloromethane | 3.7 | 90 | | 0.41 U | 2.3 | 4.1 UD | 4.1 UD | 1.9 | 0.41 U | 2.1 | 1.3 | 1.1 D | 2.2 | 1.3 |
| 3-Chloropropene | NE | NE | | 0.25 U | 0.25 U | 2.5 UD | 2.5 UD | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.44 UD | 0.25 U | 0.25 U |
| 2-Methylbutane | NE | NE | | 0.42 J | 16 | 200 D | 580 D | 5.2 | 2 | 2.9 | 1.8 | 3.5 D | 2.9 | 2.8 |
| Indane | NE | NE | | 0.39 U | 0.39 U | 1.8 D | 4.1 D | 0.39 U | 0.39 U | 0.39 U | 0.39 U | 0.67 UD | 0.39 U | 0.39 U |
| 2-Chlorotoluene | NE | NE | | 0.83 U | 0.83 U | 8.3 UD | 8.2 UD | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 1.4 UD | 0.83 U | 0.83 U |
| Cyclohexane | NE | NE | | 0.69 U | 0.63 J | 6.9 UD | 13 D | 0.53 J | 0.53 J | 0.69 U | 0.69 U | 1.2 UD | 0.69 U | 0.69 U |
| 1,2-Dichlorobenzene | < 1.2 | 200 | | 0.48 U | 0.48 U | 4.8 UD | 4.8 UD | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.84 UD | 0.48 U | 0.48 U |
| 1,3-Dichlorobenzene | < 2.4 | 110 | | 0.48 U | 0.48 U | 4.8 UD | 4.8 UD | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.84 UD | 0.48 U | 0.48 U |
| 1,4-Dichlorobenzene | 5.5 | 800 | | 0.48 U | 0.48 U | 4.8 UD | 4.8 UD | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.84 UD | 0.48 U | 0.48 U |
| Dichlorodifluoromethane | 16.5 | 200 | | 5.4 | 4.7 J | 7.4 JD | 8.8 JD | 4.9 J | 3.4 | 4.1 J | 4.2 | 4.8 JD | 4.8 J | 4.7 J |
| 1,1-Dichloroethane | < 0.7 | 500 | | 0.32 U | 0.32 U | 3.2 UD | 3.2 UD | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.56 UD | 0.32 U | 0.32 U |
| 1,2-Dichloroethane | < 0.9 | 9.4 | | 0.32 U | 0.32 U | 11 D | 3.2 UD | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.56 UD | 0.32 U | 0.32 U |
| 1,1-Dichloroethene | < 1.4 | 200 | | 0.32 U | 0.32 U | 3.2 UD | 3.1 UD | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.55 UD | 0.72 | 0.32 U |
| cis-1,2-Dichloroethene | < 1.9 | 35 | | 0.32 U | 0.32 U | 3.2 UD | 3.1 UD | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.55 UD | 0.32 U | 0.32 U |
| trans-1,2-Dichloroethene | NE | 70 | | 0.32 U | 0.32 U | 3.2 UD | 3.1 UD | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.55 UD | 0.32 U | 0.32 U |
| 1,2-Dichloropropane | < 1.6 | 4.0 | | 0.37 U | 0.37 U | 3.7 UD | 3.7 UD | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 0.64 UD | 0.37 U | 0.37 U |
| cis-1,3-Dichloropropene | < 2.3 | 20 | | 0.36 U | 0.36 U | 3.6 UD | 3.6 UD | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.63 UD | 0.36 U | 0.36 U |

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the reporting limit for

the analyzed constituent.

J - Estimated concentration. The result is below the reporting limit but above the method detection limit.

B - The associated method blank contains the target analyte at a reportable level.

D - Sample was diluted before analysis.

NC - Not Calculated

NE - Not Established

Above NYSDOH typical indoor air concentrations

(a) From "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (NYSDOH October 2006). As recommended by NYSDOH, typical indoor air concentrations in non-residential settings are the 90th percentile values from the USEPA BASE data.

(b) From "Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (USEPA November 2002). Office of Solid Waste and Emergency Response. An incremental individual lifetime cancer risk level of 10⁻⁴ is used for non-residential settings.

(µg/m3) - micrograms per cubic meter

Above USEPA target indoor air concentrations

Above both NYSDOH and USEPA criteria



| | | USEPA Target | | | Sons of Ita | alv Lodge | |
|----------------------------------------|--------------------------------------------|-------------------------------------|-----------|----------------------|----------------------|----------------------|----------------------|
| | Typical Indoor | Indoor Air | Location: | SS-5 | DUP031808-SS | IA-5 | OA-5 |
| | Air Concentration (ug/m ³) (a) | Concentrations (ug/m ³) | Date: | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 |
| Compound | Non-residential | Non-residential (b) | Units | (µg/m ³) | (µg/m ³) | (ug/m ³) | (µg/m ³) |
| trans-1.3-Dichloropropene | < 1.3 | 20 | onnto. | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 1.2-Dichloro-1.1.2.2-tetrafluoroethane | < 6.8 | NE | | 0.34 J | 0.27 J | 0.26 J | 0.24 J |
| Acetone | 98.9 | 350 | | 26 J | 7.4 J | 21 U | 28 |
| 1.4-Dioxane | NE | NE | | 0.72 U | 0.72 U | 0.72 U | 0.72 U |
| Ethylbenzene | 5.7 | 220 | | 0.17 J | 0.12 J | 0.51 | 0.56 |
| Trichlorofluoromethane | 18.1 | 700 | | 2.6 | 2.5 | 3 | 2.3 |
| n-Heptane | NE | NE | | 0.82 U | 0.16 J | 0.47 J | 0.54 J |
| Hexachlorobutadiene | < 6.8 | 11 | | 4.3 U | 4.3 U | 4.3 U | 4.3 U |
| n-Hexane | 10.2 | 200 | | 0.7 U | 0.096 J | 0.66 J | 0.66 J |
| 2-Hexanone | NE | NE | | 0.87 J | 0.82 U | 0.82 U | 0.93 |
| 2,2,4-Trimethylpentane | NE | NE | | 30 | 28 | 0.45 J | 0.55 J |
| Isopropyl alcohol | NE | 250 | | 0.65 J | 0.33 J | 0.73 J | 0.71 J |
| Isopropylbenzene | NE | 400 | | 0.79 U | 0.79 U | 0.79 U | 0.79 U |
| tert-Butyl alcohol | NE | NE | | 0.67 J | 0.17 J | 0.19 J | 0.11 J |
| Methylene chloride | 10.0 | 520 | | 0.78 U | 0.76 U | 2.1 | 2.1 |
| 2-Methylnaphthalene | NE | 70 | | 5.8 U | 5.8 U | 5.8 U | 5.8 U |
| Naphthalene | 5.1 | 3.0 | | 0.53 J | 0.53 J | 1 U | 1 U |
| Benzene | 9.4 | 31 | | 0.23 J | 0.38 | 1.5 | 1.6 |
| n-Octane | 4.5 | NE | | 0.11 J | 0.75 U | 0.19 J | 0.19 J |
| Pentane | NE | NE | | 0.65 J | 0.44 J | 1.7 | 2 |
| Styrene | 1.9 | 1000 | | 0.25 J | 0.16 J | 0.34 U | 0.23 J |
| 1,1,2,2-Tetrachloroethane | NE | 4.2 | | 0.55 U | 0.55 U | 0.55 U | 0.55 U |
| Tetrachloroethene | 15.9 | 81 | | 1.5 | 0.54 | 0.31 J | 0.19 J |
| Toluene | 43.0 | 400 | | 0.39 | 0.34 | 2.2 | 2.6 |
| 1,2,4-Trichlorobenzene | < 6.8 | 200 | | 3 U | 3 U | 3 U | 3 U |
| 1,1,1-Trichloroethane | 20.6 | 2200 | | 0.082 J | 0.13 J | 0.14 J | 0.14 J |
| 1,1,2-Trichloroethane | < 1.5 | 15 | | 0.44 U | 0.44 U | 0.44 U | 0.44 U |
| Trichloroethene | 4.2 | 2.2 | | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.5 | 30000 | | 1.1 | 1 | 1.1 | 0.81 |
| 1,2,4-Trimethylbenzene | 9.5 | 6.0 | | 0.16 J | 0.39 U | 0.13 J | 0.46 |
| 1,3,5-Trimethylbenzene | 3.7 | 6.0 | | 0.34 J | 0.36 J | 0.39 U | 0.16 J |
| Vinyl chloride | < 1.9 | 28 | | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| o-Xylene | 7.9 | 7000 | | 0.31 J | 0.23 J | 0.5 | 0.66 |
| 1-Methylnaphthalene | NE | NE | | 5.8 U | 5.8 U | 5.8 U | 5.8 U |
| Methyl tert-butyl ether | 11.5 | 3000 | | 11 | 11 | 1.4 U | 1.4 U |
| n-Decane | 17.5 | NE | | 1.6 J | 1.1 J | 2.3 U | 0.32 J |
| n-Dodecane | 15.9 | NE | | 0.71 J | 0.27 J | 2.8 U | 2.8 U |
| n-Undecane | 22.6 | NE | | 2.6 U | 2.6 U | 2.6 U | 0.21 J |
| Nonane | 7.8 | NE | | 1 U | 1 U | 0.15 J | 0.28 J |
| m-Xylene & p-Xylene | 22.2 | 7000 | | 0.38 | 0.32 J | 1.5 | 2 |
| Bromodichloromethane | NE | 14 | | 0.54 U | 0.54 U | 0.54 U | 0.54 U |
| 1,2-Dibromoethane (EDB) | < 1.5 | 0.20 | | 0.61 U | 0.61 U | 0.61 U | 0.61 U |
| 2-Butanone (MEK) | 12.0 | 1000 | | 3 | 1.2 U | 1.9 | 4 |
| 4-Methyl-2-pentanone (MIBK) | 6.0 | 80 | | 0.82 U | 0.82 U | 0.82 U | 0.73 J |
| Vinyl bromide | NE | NE | | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| n-Butane | NE | NE | | 2.7 | 2.6 | 4.8 | 4.8 |
| Bromoform | NE | 220 | | 0.83 U | 0.83 U | 0.83 U | 0.83 U |
| Bromomethane | < 1.7 | 5.0 | | 0.31 U | 0.31 U | 0.31 U | 0.31 U |



| | | USEPA Target | | | Sons of It | aly Lodge | |
|--------------------------|-------------------------------------------------------|-------------------------------------|-----------|-----------|--------------|-----------|-----------|
| | Typical Indoor | Indoor Air | Location: | SS-5 | DUP031808-SS | IA-5 | OA-5 |
| | Air Concentration (µg/m ³) ^(a) | Concentrations (µg/m ³) | Date: | 3/18/2008 | 3/18/2008 | 3/18/2008 | 3/18/2008 |
| Compound | Non-residential | Non-residential (b) | Units: | (µg/m³) | (µg/m³) | (µg/m³) | (µg/m³) |
| Indene | NE | NE | | 0.76 U | 0.76 U | 0.76 U | 0.76 U |
| 1,3-Butadiene | < 3.0 | 0.87 | | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 4-Ethyltoluene | NE | NE | | 0.79 U | 0.79 U | 0.79 U | 0.18 J |
| Thiophene | NE | NE | | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| Carbon disulfide | 4.2 | 700 | | 0.1 J | 0.095 J | 0.078 J | 0.065 J |
| Carbon tetrachloride | < 1.3 | 16 | | 1.1 | 1.1 | 1 | 0.8 |
| Chlorobenzene | < 0.9 | 60 | | 0.37 U | 0.37 U | 0.37 U | 0.37 U |
| 1,2,3-Trimethylbenzene | NE | NE | | 0.62 | 0.56 | 0.39 U | 0.39 U |
| Dibromochloromethane | NE | 10 | | 0.68 U | 0.68 U | 0.68 U | 0.68 U |
| Chloroethane | < 1.1 | 10000 | | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| Chloroform | 1.1 | 11 | | 0.16 J | 0.14 J | 0.19 J | 0.12 J |
| Chloromethane | 3.7 | 90 | | 0.41 U | 0.35 J | 2.4 | 2.1 |
| 3-Chloropropene | NE | NE | | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Methylbutane | NE | NE | | 3.6 | 3.2 | 3 | 2.7 |
| Indane | NE | NE | | 0.39 U | 0.39 U | 0.39 U | 0.39 U |
| 2-Chlorotoluene | NE | NE | | 0.83 U | 0.83 U | 0.83 U | 0.83 U |
| Cyclohexane | NE | NE | | 0.7 | 0.79 | 0.69 U | 0.69 U |
| 1,2-Dichlorobenzene | < 1.2 | 200 | | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| 1,3-Dichlorobenzene | < 2.4 | 110 | | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| 1,4-Dichlorobenzene | 5.5 | 800 | | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| Dichlorodifluoromethane | 16.5 | 200 | | 4.6 | 4.3 | 5.2 J | 4.5 J |
| 1,1-Dichloroethane | < 0.7 | 500 | | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 1,2-Dichloroethane | < 0.9 | 9.4 | | 0.32 U | 0.32 U | 0.32 U | 0.16 J |
| 1,1-Dichloroethene | < 1.4 | 200 | | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| cis-1,2-Dichloroethene | < 1.9 | 35 | | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| trans-1,2-Dichloroethene | NE | 70 | | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 1,2-Dichloropropane | < 1.6 | 4.0 | | 0.37 U | 0.37 U | 0.37 U | 0.37 U |
| cis-1,3-Dichloropropene | < 2.3 | 20 | | 0.36 U | 0.36 U | 0.36 U | 0.36 U |

Notes:

U - The analyte was analyzed for, but was not detected. Value shown is representative of the reporting limit for

the analyzed constituent.

J - Estimated concentration. The result is below the reporting limit but above the method detection limit.

B - The associated method blank contains the target analyte at a reportable level.

D - Sample was diluted before analysis.

NC - Not Calculated

NE - Not Established

(a) From "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (NYSDOH October 2006). As recommended by NYSDOH, typical indoor air concentrations in non-residential settings are the 90th percentile values from the USEPA BASE data.

(b) From "Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (USEPA November 2002). Office of Solid Waste and Emergency Response. An incremental individual lifetime cancer risk level of 10⁴ is used for non-residential settings. Above NYSDOH typical indoor air concentrations

Above USEPA target indoor air concentrations

Above both NYSDOH and USEPA criteria

(µg/m3) - micrograms per cubic meter



FIGURES





- ightarrowSoil Boring
- Monitoring Well

 \otimes Manhole

Power Pole \boxtimes

> Ground Surface Elevation Contour (ft, NGVD 29)

- _ - _ Property Line
- Pavement Edge
- Vegetation
- Water Line

Storm Sewer Line

Sanitary Sewer Line

Gas Line

| | UII | |
|--|-----|--|
|--|-----|--|

Sub-Slab Vapor/Indoor Air Sampling Location (approximate)

Sub-Slab Vapor Sampling Location (approximate)

Outdoor Air Sampling Location (approximate)

r.

40

20

Former MGP Structure Location. Locations are 12 21 approximate, based on 1924 Sanborn Fire Insurance Map.

Source: Base map developed based on drawing prepared by Snyder Engineering & Land Surveying, LLP (January 11, 2005, Revised July 23, 2007) Refer to this drawing for site details.

40

Feet

0

| FIGURE 1 | |
|----------|--|

SAMPLE LOCATIONS

DATE

В

OSWEGO (WEST UTICA ST.) FORMER MGP SITE OSWEGO, NEW YORK

| 02/25/2008 | | | | | 129862.103 | | | | | | | |
|------------|---|---|---|-----|------------|---|---|---|---|---|---|---|
| BR | 0 | W | N | AND | С | A | L | D | W | E | L |] |

PROJECT NUMBER

ASSOCIATES

 $p:/GIS/National_Grid/Oswego/Oswego_PhaseII_SVI_Sample_Locs.mxd$

ATTACHMENT A

Indoor Air Inventories



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 <u>Jam</u> | ES MAROLDA | Date/Time Prepared 3130 | 8 15:00 |
|----------------------------|-----------------------------------|--------------------------|----------------------------------------------|
| Preparer's Affiliation B | ROWN AND CALDWELL | Phone No. 518-472-198 | <u>¢ </u> |
| Purpose of Investigation_ | SOLL VAPOR INTRUS | IN EVALUATION | |
| 1. OCCUPANT: | | | |
| Interviewed: (Y) N | | | |
| Last Name: KELLS | First Nan | ne: THOMAS | |
| Address: 195 WES | ST FOURTH ST. | DSWEZLO NY 13126 | |
| County: OSWEGO | | | |
| Home Phone: N | Office Phone: | 315-342-3565 | |
| Number of Occupants/pe | rsons at this location $2 - 3$ | Age of Occupants 25 -5 0 | |
| 2. OWNER OR LANDI | L ORD: (Check if same as o | ccupant 🗹) | |
| Interviewed: Y / N | | | |
| Last Name: | First Nar | me: | |
| Address: | | | |
| County: | | | |
| Home Phone: | Office Phone | 2: | |
| | | | |
| 3. BUILDING CHARA | CTERISTICS | | |
| Type of Building: (Circ | le appropriate response) | | |
| Residential Industrial | School Con Church Othe | nmercial/Multi-use | |
| | | | |

| | | 2 |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| the property is residenti | i 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: ► A |
| f multiple units, how mar | ny? N/A | |
| f the property is commer | cial, type? | |
| Business Type(s) | RPET DISTRIBLIER | · |
| Does it include residen | ces (i.e., multi-use)? Y (| N If yes, how many? |
| Other characteristics: | | |
| Number of floors | Buil | ding age Approx 60 urs |
| Lette heitline insulates | - Dan | w air tight? Tight Average Not Tight |
| is the building insulated | | van tight? Tight Average Average Average |
| 4. AIRFLOW | | |
| Use air current tubes or t | racer smoke to evaluate | airflow patterns and qualitatively describe: |
| | | |
| Airflow between floors | | |
| NOT APPLICABI | w E | |
| | | |
| | | |
| | | |
| Airflow near source | | |
| POSITIVE PAUGGUY | LE OCHERNTED | AT ENTERNICE TO BUILDING , |
| LOCATED IN VIC | INITY OF WHERE | 5 SUB-SLAB VARA AND INDOSA |
| DIR SAMPLING N | ILL BE CONOLL | . 0'51 |
| | | |
| | | |
| Outdoor air infiltration | | |
| | 26 DOCKMENTED | - AIR- FLOW DIRECTED TOWARD |
| Positive PRESSUR | | at the floor |
| POSITIVE PRESSUR OUTBOORS FROM | BUILDING INTER | 2 |
| POSITIVE PRESSUR DUTBOORS FROM | BUILDING INTER | • • • • • • |
| POSITIVE PRESSUR | BUILDING INTER | |
| POSITIVE PRESSUR OUTBOORS FROM Infiltration into air ducts | BUILDING INTER | e ruets of the all and |
| POSITIVE PRESSUR OUTBOOKS FROM Infiltration into air ducts OUTWARD : HEAT | BUILDING INTER | OHETS AT THE OF INVENTO |
| POSITIVE PRESSUR DUTDOORS FROM Infiltration into air ducts OUTWARD : HEAT | BUILDING INTER | ORETS AT THE OF INVENTO |
| POSITIVE PRESSUR OUTBOORS FROM Infiltration into air ducts OUTWARD : HEAT | BUILDING INTER | ORETS AT TIME OF INVENT |

3

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

| a. Above grade construction: | wood frame | concrete | stone | brick | | | |
|-------------------------------------------------------------------------------------------------------|-------------------|--------------|------------------|----------|--|--|--|
| b. Basement type: | full | crawlspace | slab | other | | | |
| c. Basement floor: | concrete | dirt | stone | other | | | |
| d. Basement floor: | uncovered | covered | covered with _ | | | | |
| e. Concrete floor: | unsealed | sealed | -scaled with _ | ARPETNE | | | |
| 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 finish | ed | | | |
| j. Sump present? | Y / N | | | | | | |
| k. Water in sump? Y / N / | not applicable | > | | | | | |
| Basement/Lowest level depth below g | grade: <u>0.5</u> | (feet) APCAN | 6-INCH SCHB | on alles | | | |
| Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains) | | | | | | | |
| SHOWROOM COVERED W/ CARPETING OR CERAMIC TILE | | | | | | | |
| | | | | | | | |

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

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

| Hot air circulation Space Heaters Electric baseboard | FORCED Heat pu Stream Wood s | imp radiation stove | Hot water baseboard Radiant floor Outdoor wood boiler | Other | | | | |
|------------------------------------------------------------|------------------------------------|---------------------------|-------------------------------------------------------------|-------|--|--|--|--|
| The primary type of fuel u | sed is: | | | | | | | |
| Natural Gas Electric Wood | Fuel Oi Propan Coal | e | Kerosene Solar | | | | | |
| Domestic hot water tank fueled by: | | | | | | | | |
| Boiler/furnace located in: | Basement | Outdoors | Main Floor | Other | | | | |
| Air conditioning: | Central Air | Window units | Open Windows | None | | | | |

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.

 $(\bar{Y})N$

| LOCATIO | N OF COLD AIR REPLACEN L | PEATES VIT | AND ADJON | in h |
|-----------------------|-------------------------------------------------|------------------|----------------------------------------|---------------------------------------|
| RULDIN | a (TAMOR RENTAL). | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 7. OCCUP | ANCY | | | |
| Is basement/ | lowest level occupied? Full-time O | ccasionally Seld | lom Almo | st Never |
| Level | General Use of Each Floor (e.g., family | room bedroom l | aundry worksho | n staraga) |
| | | room, beuroom, i | aunury, worksno | p, storage) |
| Basement | NOT APPLICABLE | | | |
| 1 st Floor | SHOWEDDA ACCUPIED 2. 2 | - C VAL CANC | and the of is to the terms | |
| 2nd Elean | WORKDAY (7.30 AM - 5:00 pm) | a tree and to be | 1 the much prover the bar of | |
| 2 F100r | NOT APPLICABLE | | | |
| 3 rd Floor | NOT MPPLICARLE | | | |
| 4 th Floor | NOT APPLICABLE | | | |
| | | | | |
| 8. FACTOR | S THAT MAY INFLUENCE INDOOR AI | R QUALITY | | |
| a. Is there | an attached garage? | Y K | N | |
| b. Does the | e garage have a separate heating unit? | Ύ | N)NA | |
| c Are netr | plaum nowored machines on achieles | ~~~ | | |
| stored in | a the garage (e.g., lawnmower, atv, car) | Plea | N/NA se specify 🕡 🔊 | TOINING DUILONG |
| d. Has the | building ever had a fire? | V | When? | TAYLOR RENTAL) |
| o Is o kona | | 10 | | |
| C. 15 a KCI U | ssene of unvented gas space neater present? | Y | Where? | |
| f. Is there a | a workshop or hobby/craft area? | N Whe | ere & Type? <u>IN</u> | TOWING BUILDING |
| g. Is there | smoking in the building? | Y (N) How | frequently? | · · · · · · · · · · · · · · · · · · · |
| h. Have cle | eaning products been used recently? | YN Whe | en & Type? | OLD PRODUCTS WWMEY 2/12/05 |
| j. Have cos | metic products been used recently? | V AL W | •••••••••••••••••••••••••••••••••••••• | - cannot Mining |
| | products seen used recently; | I (IN) Whe | ага туре? | |

| j. Has painting/staining been done in the last 6 months? | Y KN Whe | re & When? |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------|
| k. Is there new carpet, drapes or other textiles? | CY/N Whe | re & When? THEOREMOLIT SHOW POOM |
| l. Have air fresheners been used recently? | Y (N) Whe | n & Type? |
| m. Is there a kitchen exhaust fan? | Y(N) If ye | s, where vented? |
| n. Is there a bathroom exhaust fan? | N If ye | s, where vented? South and |
| o. Is there a clothes dryer? | Y (N) If ye | s, is it vented outside? Y / N |
| p. Has there been a pesticide application? | Y (N) Whe | n & Type? |
| Are there odors in the building? If yes, please describe: <u>NEW CARPET ODORS</u> F | (Y)N Rom ADHOS. | 105 |
| 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 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 response) | a dry-cleaning s | 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 Unkı |) nown |
| 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: Public Water Drilled Well Driv | 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: | NOT RPPLICE | 1865 |
| 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: RAE Systems Mini RAE 2000

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> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------|------------------------|---------------------------------------|-------------------------------------------|--------------------------|
| SHOWROOM | ELO 100 ULTURA BOND | lat. | uo | NONE | 0.0 | Ч |
| | FLOGE CARE ESSENTIALS | Cam | | | | 1 |
| FAINT DESK | HARD SURFACE CLEANER | 32.02 | u | NOT SPECIFIED | | |
| | HAROWOOD & LAMINATE | | 8 h. Ara. | | | |
| | FLOOR LLEANER | 2202 | NO | NOT SPECIFIES | | |
| | MARBLE CLEANER | 1602 | uo | LENON PERFUNE UFLOU OUE | | 1 |
| and the second sec | COMBAN'S STAIN REMOVER CARPET/NOHOLSTERY/LANNDRY | 32 502 | . uš | NOT SPECIFIED | | |
| V | LET OUT STAIN REMOVER | 1307 | 5 | NOF SPEZIFIED | V | V |
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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.

PHOTOGRAPHIC LOG FOR INDOOR AIR QUALITY BUILDING INVENTORY

B R O W N A N D C A L D W E L L

Oswego (West Utica St.) Former MGP Site Phase II SVI Evaluation Indoor Air Inventory – Advantage Carpets Photographic Log Sheet



Photograph #1 -General view of Advantage Carpets showroom area. Top of photo is west.



Photograph #2 - General view of Advantage Carpets showroom area. Top of photo is east.

B R O W N A N D C A L D W E L L

Oswego (West Utica St.) Former MGP Site Phase II SVI Evaluation Indoor Air Inventory – Advantage Carpets Photographic Log Sheet



B R O W N A N D C A L D W E L L

Oswego (West Utica St.) Former MGP Site Phase II SVI Evaluation Indoor Air Inventory – Advantage Carpets Photographic Log Sheet





ONTARIO LAKESIDE MEDICAL ASCOLIATES

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 NameAme | -S MAROLDA | <u>\</u> | Date/Time Prepared 3/14/28 04:00 |
|--------------------------------|---------------------------------------|------------------------------|----------------------------------|
| Preparer's Affiliation | BROWN AND | CALOWELL | Phone No. 518-472-1988 |
| Purpose of Investigation_ | SOIL VAPOR | e intractions | EVALUATION |
| 1. OCCUPANT: | | | |
| Interviewed: Y/N | | | |
| Last Name: DATER | · · | _ First Name: | TARLOS |
| Address: 177 MEST | a farte stanting. In altern . | OSWELD, N | 13126 |
| County: OSWELO | : | | |
| Home Phone: <u>315 - 34</u> | 2-2883 0 | ffice Phone: 25 | - 343 - 2151 |
| Number of Occupants/pe | rsons at this loca | ation VARCES Ag | e of Occupants <u>VARIES</u> |
| 2. OWNER OR LAND | LORD: (Check | if same as occupan | t) |
| Interviewed: Y | | | |
| Last Name: | · · · · · · · · · · · · · · · · · · · | First Name: | |
| Address: | : : | | |
| County: | : : | | |
| Home Phone: | (| Office Phone: | |
| | | | |
| 3. BUILDING CHARA | CTERISTICS | | |
| Type of Building: (Circ | le appropriate re | sponse) | |
| Residential Industrial | School Church | Commercia Other: <u>M</u> | al/Multi-use DICAL OFFICE |
| | | | |

| If the property is residential, | type? (Circle approp | priate 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? | NIA | |
| If the property is commercial | , type? | |
| Business Type(s) | CAL OFFICE | |
| Does it include residences | (i.e., multi-use)? Y | If yes, how many? |
| Other characteristics: | | |
| Number of floors | Вι | uilding age APPRAS 150+ YRS |
| Is the building insulated? |) N H | ow air tight? Tight Average Not Tight |
| | | |
| 4. AIRFLOW | an smoleo to ovaluat | a airflow pattorns and qualitatively describe |
| Use air current tudes or trace | er smoke to evaluat | e armow patterns and quantatively describe. |
| Airflow between floors | | |
| UPWARDS NOW ANDS F | Rom BASEMENT | T 73 FIRST FLOOR |
| | | |
| | | |
| Airflow near source | | |
| NEAR SAMPLINE LOCA | TION AIRFOR | 2 IS OLDECTED UPWARD TOWARDS |
| Ist FLOOR | | |
| | | · · · · · · · · · · · · · · · · |
| | | |
| Outdoor air infiltration | | |
| DID NOT DEPERMINE | purchade 1 | NUENTO R.Y. |
| | | J |
| | | |
| Infiltration into air ducts | y | a start for The sec. |
| DID NOT DETERMINE | Oux wh in | ve view of |
| | | × |
| | | |

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

| a. Above grade construction: | wood frame | concrete | stone | brick |
|----------------------------------|--------------------|------------|----------------|---------------------------|
| b. Basement type: | full | crawlspace | slab | other |
| c. Basement floor: | concrete | dirt | stone | other |
| d. Basement floor: | uncovered | covered | covered wit | h_PAN T |
| e. Concrete floor: | unsealed | PARTIALLY | sealed with | |
| f. Foundation walls: | poured | block | stone | other BRICK |
| g. Foundation walls: | unsealed | sealed | sealed with | PAINT DRAINGE CHANNELS |
| h. The basement is: | wet | (damp) | dry | moldy |
| i. The basement is: | finished | unfinished | cpartially fin | ished |
| j. Sump present? | Y(N) | | | |
| k. Water in sump? Y | N / hot applicable | > | | |
| Basement/Lowest level depth belo | w grade: 8 | _(feet) | | |

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

FOLMOATION WALLS AND BASEMENT FLOOR IN GOOD CONDITION, FLOOR SCALED

W PAINT, MINIMUL CRACHING OBSERVED ON CONCRETE FLODIC NO POPENTIAL ENTRY POINTS IDENTIFIED IN FORWORTION WALLS ASIDE FROM BRICK CUT-OUT LOCATED ALONG SOUTHER WALL.

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

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

| Hot air circulation Space Heaters Electric baseboard | > Heat po Stream Wood | ump radiation stove | Hot water baseboard Radiant floor Outdoor wood boiler | Other |
|------------------------------------------------------------|-----------------------------|---------------------------|-------------------------------------------------------------|-------|
| The primary type of fuel us | sed is: | | | |
| Natural Gas Electric Wood | Fuel O Propan Coal | il e | Kerosene Solar | |
| Domestic hot water tank fu | eled by: | | | |
| Boiler/furnace located in: | Basement | Outdoors | Main Floor | Other |
| Air conditioning: | Central Air | Window units | Open Windows | None |

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.

| AIR C | ISTRIBUTION DUCTS IN 4000 | CONDITION APPE | NR TO BE |
|-----------------------|---------------------------------------------|-----------------------------------------|------------------------------------------------|
| FAIRLY | NEW. | | |
| | | | стана. |
| | | | |
| | | | |
| 7. OCCUP | PANCY | | |
| Is basement | /lowest level occupied? Full-time Occ | asionally Seldom | Almost Never |
| Level | General Use of Each Floor (e.g., familyro | om, bedroom, laundry, wo | orkshop, storage) |
| | | | |
| Basement | STORALE | | |
| 1 st Floor | MEDICAL OFFICE EXAM ROOM | 4. ₂₀ | |
| 2 nd Floor | MEDICAL EXCEVEISE CENTER. | | |
| 3 rd Floor | | | |
| 4 th Floor | | | |
| | | | |
| 8. FACTOF | RS THAT MAY INFLUENCE INDOOR AIR | QUALITY | |
| a. Is there | an attached garage? | Y/N | |
| b. Does th | e garage have a separate heating unit? | Y / N(NA) | |
| c. Are pet | roleum-powered machines or vehicles | Y / N /NA | |
| stored i | n the garage (e.g., lawnmower, atv, car) | Please specify_ | |
| d. Has the | building ever had a fire? | Y / N When? | · |
| e. Is a ker | osene or unvented gas space heater present? | Y N Where? | |
| f. Is there | a workshop or hobby/craft area? | Y (N) Where & Type? | , |
| g. Is there | smoking in the building? | Y/N How frequently | ? |
| h. Have cl | eaning products been used recently? | $\widetilde{\mathbb{Q}}$ N When & Type? | ALL PURPOSE CLANNERS WSED IN RECEPTION AREA |
| i. Have co | smetic products been used recently? | Y N When & Type? | |

| j. Has painting/staining been done in the last 6 months? | YN Where & When? (ST FLOOR BATTERDOM |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| k. Is there new carpet, drapes or other textiles? | (Y)N Where & When? 155 FLOOR WAITING ROOM |
| l. Have air fresheners been used recently? | N When & Type? USED IN IST FLOOD. |
| 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: | YN |
| 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) 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) | 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 MEDICAL UNIFORMS SENT OUT |
| Is there a radon mitigation system for the building/structur 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 | n Well Dug Well Other: |
| Sewage Disposal: Public Sewer Septic Tank Leach | a Field Dry Well Other: |
| 10. RELOCATION INFORMATION (for oil spill residenti | 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 reimburseme | 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.

Basement:



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.



D.O PPM w PIO ALONG BUILDING EXTERIOR

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: RAE SUSTEMS MINI RAE 2000

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> |
|----------|-----------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------|
| BASEMENT | STAIN & POLYMATTITANE | 32 02 | K | ALIPHATIC HYDROCARBONS | 6.0 | |
| | SATIN FINISH | 32.02 | Ц | CRYSTRELINE SILICA | | |
| | FLEXIBLE FLOOR PATCH | 16 07 | u | NOT SPECIFIED CRYSTALLINE SILVER CALCIUM CARRONARE | | |
| | AND LEVEZER ALL PHRPOSE JOINT COMPOLIND | 1216 | <u> </u> | LIMESTONE, VINYL ACETATE POLYMER, PTHYLEVE VINYL ACETATE POLYMER, ATTA PULLAST | | |
| | ACRYLIC LAREX ENAMEL | Same | K | ETHYLENE GLYCOL | | |
| | PAINT | 5646 | 4 | Nor SPECIFICS | | |
| | CEMI GLOSS ENAMEL FAST DAYING POLYMEETHANE | 12402 | ЦЦ | CHUSTMULINE SILICA ACKYLIC LATEX ALIDHATIC HYDROCARBONS, KETNES, | | |
| | RUST STOP | 12407 | u u | HUDROCKABON PROPERANTS PETRILETIM DISTULTES CALCIUM CALBONIE ALMYO RESCH, MACANESICIUM SUICHTE, CARLING SUICHTES, | | |
| | SOLVENT FREE COVE BASE ADDESIVE | 32.02 | u | A CONTRACTOR MANUEL CONTRACTOR | | |
| V | SEMI GLOSG | 3202 | ų | ETHYLENE GLYCOL, ESTER ALCONOL | | V |
| | | | and the second | | | |
| 1 ° 1. | | | | | | |
| | | | | | | |
| | | | , ,,, =04 | | | |
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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.

BTSA\Sections\SIS\Oil Spills\Guidance Docs\Aiproto4.doc

PHOTOGRAPHIC LOG FOR INDOOR AIR QUALITY BUILDING INVENTORY
Oswego (West Utica St.) Former MGP Site Phase II SVI Evaluation Indoor Air Inventory – Ontario Lakeside Medical Associates Photographic Log Sheet





Photograph #2 - General view of basement. Top of photo is west.

Oswego (West Utica St.) Former MGP Site Phase II SVI Evaluation Indoor Air Inventory – Ontario Lakeside Medical Associates Photographic Log Sheet





Photograph #5 – View of foundation wall condition.



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 dames MAROLDA Date/Time Prepared 3/13/08 11:00 |
|------------------------------------------------------------------|
| Preparer's Affiliation BROWN AND CALOWELL Phone No. 518-472-1985 |
| Purpose of Investigation Sour VAPOR INTENSION EVALUATION |
| 1. OCCUPANT: |
| Interviewed: Y(N) |
| Last Name: LACERDO First Name: Cutty |
| Address: 178 WEST THIRD ST. OSWELLO, NY 13126 |
| County: OSVET-S |
| Home Phone: NA Office Phone: 315-343-6450 |
| Number of Occupants/persons at this location Age of Occupants |
| 2. OWNER OR LANDLORD: (Check if same as occupant) |
| Interviewed: Y/S |
| Last Name: ALTIMONDA First Name: LOBERTA |
| Address: AS ABDVE |
| County: AS MADUE |
| Home Phone: <u>NA</u> Office Phone: <u>AS AGOV</u> |
| |
| 3. BUILDING CHARACTERISTICS |
| Type of Building: (Circle appropriate response) |
| ResidentialSchoolCommercial/Multi-useIndustrialChurchOther: |

| If the property is resident | tial, type? (Circle appr | opriate 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 ma | ny? (| |
| If the property is comme | rcial, type? | |
| Business Type(s) <u>F</u> R | ATERNAL DRGAA | JITEAT ON |
| Does it include resider | nces (i.e., multi-use)? | Y / N If yes, how many? |
| Other characteristics: | | |
| Number of floors | I | Building age APPLIX TO YES |
| Is the building insulate | ed (Y) N I | How air tight? Tight / Average / Not Tight |
| | | """""""""""""""""""""""""""""""""""""" |
| 4. AIRFLOW | | |
| Use air current tubes or t | tracer smoke to evalua | ate airflow patterns and qualitatively describe: |
| Airflow between floors | | |
| Not APPLICASLE | | |
| · | | |
| · | | |
| Airflow near source | | |
| POSITIVE PRESSUR | E AT EXIT TO | OR NEMPE FOIL MPOR PROCE (SU-6). |
| | | |
| | | |
| | | |
| Outdoor air infiltration | | |
| POSITIVE PRESSU | re beservers u | SING TRACER SMORE. |
| | | |
| | | |
| Infiltration into air ducts | | |
| OUTWARD FRIM 1 | KATNE DRETT | |
| INWARD FOR SMO | RE EHTERS (N | in USED ANY MARE) |
| | | |
| | | |
| | | |

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

| a. Above grade construction: | wood frame | (concrete) | stone | brick | | | |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|-----------------|---------|--|--|--|
| b. Basement type: | full | crawlspace | slab | other | | | |
| c. Basement floor: | concrete | dirt | stone | other | | | |
| d. Basement floor: | uncovered | covered | covered with | | | | |
| e. Concrete floor: | unsealed | sealed | sealed with _ | | | | |
| f. Foundation walls: | poured | block | stone | other | | | |
| g. Foundation walls: | unsealed | sealed | sealed with _ | | | | |
| h. The basement is: | wet | damp | dry | moldy | | | |
| i. The basement is: | finished | unfinished | partially finis | hed | | | |
| j. Sump present? | Y / N | | | | | | |
| k. Water in sump? Y / N | / not applicable | | | | | | |
| Basement/Lowest level depth below | Basement/Lowest level depth below grade: 0.5 (feet) APPLOC - 6-14CH SLAB ON CRADE | | | | | | |
| Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains) | | | | | | | |
| SMALL CRACK OBSERVED O | N CONCRET | the or | N STORAC | LE MREN | | | |

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

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

| Hot air circulationHeat pSpace HeatersStreamElectric baseboardWood | | imp radiation stove | Hot water baseboard Radiant floor Outdoor wood boiler | Other | |
|--------------------------------------------------------------------|---------------------------|---------------------------|-------------------------------------------------------------|-------|--|
| The primary type of fuel | used is: | | | | |
| Natural Gas Electric Wood | Fuel Oi Propan Coal | il e | Kerosene Solar | | |
| Domestic hot water tank | fueled by: | | | | |
| Boiler/furnace located in: | Basement | Outdoors | Main Floor | Other | |
| Air conditioning: | Central Air | Window units | Open 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 joints. Indicate the locations on the floor plan diagram.

Ý N

| HEATING | VENITS | OBSELVED | g and | HALL | N324 | , DWC+ | No 12 R | Not |
|--------------------------|--------------------------|--------------------------------------|----------------------------------------|------------------|-----------|---------------------------|--------------------|----------|
| VISIOLE | | | | | | | | |
| | | | | | | | | |
| 7. OCCUPA | ANCY | | | | | | | |
| Is basement/l | owest level | occupied? Ful | l-time | Occa | asionally | Seldom | Almost | Never |
| Level | <u>General l</u> | Use of Each Floor | r (e.g., | familyro | om, bedro | <u>om, laundry.</u> | workshop, | storage) |
| Basement | NoT | APPLICABLE | 2014 14 | | | | | |
| 1 st Floor | Deca | SIONALLY | ······································ | | | | | |
| 2 nd Floor | e./ | APPLICKOL | 8 | | | | | |
| 3 rd Floor | roh | Neplicable | | | | | | |
| 4 th Floor | NOT | APPLICADU | genn } | | | | | |
| 8. FACTORS | S THAT M | AY INFLUENCE | E INDC | OOR AIR | QUALITY | 7 | | |
| a. Is there a | an attached | garage? | | | | Y/N | | |
| b. Does the | garage hav | ve a separate heat | ting un | it? | | Y / N / NA | 3 | |
| c. Are petr stored in | oleum-powe the garage | ered machines or (e.g., lawnmower | vehicl , atv, c | es ar) | | Y / N /NA Please speci | ify | |
| d. Has the | building eve | er had a fire? | | | | Y/NWh | en? | |
| e. Is a kero | sene or unv | vented gas space l | neater | present? | | Y/N Wh | ere? | |
| f. Is there a | a workshop | or hobby/craft a | rea? | | Y /N | Where & Ty | ype? | |
| g. Is there | smoking in | the building? | | | <7∕2/N | How freque | ntly? <u>Strag</u> | MGE AREN |
| h. Have cle | eaning prod | ucts been used re | cently | ? | Y / 🕅 | When & Ty | pe? | |
| i. Have cos | metic produ | ucts been used re | cently? | • | Y / Y |) When & Ty | pe? | |
| | | | | | | | | |

| j. Has painting/staining been done in the last 6 months? | YN | Where & Wh | ien? |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|-----------------------|
| k. Is there new carpet, drapes or other textiles? | Y/N | Where & Wh | nen? |
| l. Have air fresheners been used recently? | Y |) When & Typ | e? |
| m. Is there a kitchen exhaust fan? | (Ŷ) 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 ve | ented outside? Y / N |
| p. Has there been a pesticide application? | (Y/N | When & Typ | de? once a ment |
| 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 o boiler mechanic, pesticide application, cosmetologist | Y (N or auto body |) / shop, paintinį | g, fuel oil delivery, |
| If yes, what types of solvents are used? | | <u></u> | |
| If yes, are their clothes washed at work? | Y / N | | |
| Do any of the building occupants regularly use or work a response) | t a dry-cle | 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 | | No Unknown | |
| Is there a radon mitigation system for the building/struct Is the system active or passive? Active/Passive | cure?Y / | Date of Insta | Illation: |
| 9. WATER AND SEWAGE | | | |
| Water Supply: Public Water Drilled Well Dri | iven Well | Dug Well | Other: |
| Sewage Disposal: Public Sewer Septic Tank Lea | ach Field | Dry Well | Other: |
| 10. RELOCATION INFORMATION (for oil spill resider | ntial emerg | gency) | |
| a. Provide reasons why relocation is recommended: _ | Por M | PLICA BLE | |
| b. Residents choose to: remain in home relocate to | friends/fan | nily relo | cate to hotel/motel |
| c. Responsibility for costs associated with reimburser | ment expla | ined? Y /] | Ň |
| d. Relocation package provided and explained to resi | idents? | Y / 1 | 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:



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: RAE Systems Mini RAE 2000

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> |
|------------------|---------------------------------------|-----------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|---------------------------|
| BATHLOOM | CLOROX BLEACH | IGAL | Ц | BLEWEH | 0.0 | Y |
| BATHROOM | Come emp | 21 07 | и | CHEORINGL DISINFECTIONT CLEANSER | | |
| STORAGE | Mad and and to to the second | 1 6 61 | u | al a gen a general a state a general second | | |
| STORAGE ARPA | RUL DOLTOR ANTI FORM | 1 C es las | 18 | Europei suble for al | - | |
| STOR AGE AREM | SEMIGUSS LATER ENAMEL | 5 ani | u | TTANIAN DISKIBE BATYL ARRENTE, VINYL ACETATE, ALYCOL, PLORILENE ESTER ALCOHOL | | |
| KITCHEN | MACHINE DISHWASHING COMPONED | SAAL | ų | Soorum Hyproxipe | V | V |
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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.

PHOTOGRAPHIC LOG FOR INDOOR AIR QUALITY BUILDING INVENTORY



Oswego (West Utica St.) Former MGP Site Phase II SVI Evaluation Indoor Air Inventory – Sons of Italy Lodge Photographic Log Sheet



Photograph #3 – View of miscellaneous products in storage area.



Oswego (West Utica St.) Former MGP Site Phase II SVI Evaluation Indoor Air Inventory – Sons of Italy Lodge Photographic Log Sheet



Photograph #6 – View of exterior of storage area, where sampling of sub-slab vapor and indoor air was performed.



| 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 JAMES MA | ROLDA | Date/Time Prepared 3 13 | 08 13:00 |
|-----------------------------------------|-----------------------------|-------------------------------|----------|
| Preparer's Affiliation Brown | AND CALOWELL | Phone No. 518-472-19 | 88 |
| Purpose of Investigation <u>Sour</u> VA | POR INTRUSION EVAN | - UATION | |
| 1. OCCUPANT: | | | |
| Interviewed: 🕎 N | | | |
| Last Name: KELLS | First Name: | THOMAS | |
| Address: 195 WEST FOUR | TH STREET | OSWEGO, NY 13126 | |
| County: <u>CSwF6-0</u> | | | |
| Home Phone: N/A | _Office Phone: <u>215</u> - | 343-5582 | |
| Number of Occupants/persons at this | location <u>2-9</u> Ag | e of Occupants <u>25 - 50</u> | |
| 2. OWNER OR LANDLORD: (Ch | eck if same as occupant | · <u>· ·</u>) | |
| Interviewed: Y / N | | | |
| Last Name: | First Name: | | |
| Address: | | | |
| County: | | | |
| Home Phone: | Office Phone: | | |
| | | | |
| 3. BUILDING CHARA CTERISTIC | CS | | |
| Type of Building: (Circle appropriate | e response) | | |
| Residential Scho Industrial Chur | ch Other: | /Multi-use | |

| If the property is resident | tial, type? (Circle appr | opriate response) | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------|--|--|--|--|
| Ranch2-Family3-FamilyRaised RanchSplit LevelColonialCape CodContemporaryMobile HomeDuplexApartment HouseTownhouses/CondosModularLog HomeOther: | | | | | | |
| If multiple units, how man | ny? | | | | | |
| If the property is commer | rcial, type? | | | | | |
| Business Type(s) <u>EQ</u> | INIPMENT TOOL | RENTAL | | | | |
| Does it include residen | nces (i.e., multi-use)? | Y / N If yes, how many? | | | | |
| Other characteristics: | | | | | | |
| Number of floors + | E BACKS | Building age APPROX. 60 YRS. | | | | |
| Is the building insulated | d VN I | low air tight? Tight Average Not Tight | | | | |
| 4 AIRFLOW | | | | | | |
| Use air current tubes or tu | racar smoke to evalua | te airflow pattorns and qualitatively describes | | | | |
| ese an earrent tubes of th | | the an now patterns and quantatively describe: | | | | |
| Airflow between floors | | | | | | |
| NOT APPLICABL | 6 | | | | | |
| | ····· | | | | | |
| | | | | | | |
| Airflow near source | | | | | | |
| POSITIVE PRESSURE | F DOCUMENTED | IN WAREHOUSE AREA WHERE SAMPLING | | | | |
| OF SUB-SLAB VAPOR | . WILL BE CONDU | KTED | | | | |
| | | | | | | |
| Outdoor air infiltration | | | | | | |
| POSITIVE PRESSURE | T AIR FLOW DI | RECTED TOWARDS ONTSIDE FROM INDIDES | | | | |
| | | | | | | |
| | | | | | | |
| Infiltration into air ducts | | | | | | |
| OUTWARD ; HEAT | RLOWING OUT | OF DUCTS AT TIME OF INJENTORY | | | | |
| | | | | | | |
| | | | | | | |

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

| a. Above grade construction: | wood frame | concrete | stone | brick | | |
|-------------------------------------------------------------------------------------------------------|----------------|---------------|-------------------|------------|--|--|
| b. Basement type: N/A | full | crawlspace | slab | other | | |
| c. Basement floor: N (A | concrete | dirt | stone | other | | |
| d. Basement floor: N/A | uncovered | covered | covered with | | | |
| e. Concrete floor: | unsealed | sealed | sealed with | | | |
| f. Foundation walls: NR | poured | block | stone | other | | |
| g. Foundation walls: اب اه | unsealed | sealed | sealed with | | | |
| h. The basement is: N A | wet | damp | dry | moldy | | |
| i. The basement is: N A | finished | unfinished | partially finishe | d | | |
| j. Sump present? N A | Y / N | | | | | |
| k. Water in sump? Y / N | not applicable | > | | | | |
| Basement/Lowest level depth below g | rade: 0.5 | (feet) APPROX | G-INCH SLAE | ON LEADE . | | |
| Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains) | | | | | | |
| CONCRETE FLOOR IN WAREHOUSE IN GOOD CONDITION, MINIMAL CRACKING ISSORUED | | | | | | |
| NEAR SOUTHERN BRITISH OF WARE HOUSE NO CRACKS IBSORVED IN VICINITY OF EAMPLING AREA. | | | | | | |

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

3

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

| Hot air circulation Space Heaters Electric baseboard | ForleD AIR Heat p Stream Wood | ump 1 radiation stove | Hot water baseboard Radiant floor Outdoor wood boiler | Other | | | |
|------------------------------------------------------------|----------------------------------------|-----------------------------|-------------------------------------------------------------|-----------|--|--|--|
| The primary type of fuel used is: | | | | | | | |
| Natural Gas Electric Wood | Fuel O Propan Coal | il le | Kerosene Solar | | | | |
| Domestic hot water tank fueled by: | | | | | | | |
| Boiler/furnace located in: | Basement | Outdoors | Main Floor | Other_N/A | | | |
| Air conditioning: | Central Air | Window units | Open Windows | None | | | |

Are there air distribution ducts present? (YDN

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.

| SEE FLOOR | PLAN (S | ECTION | <u>())</u> | FOR | LOCATION | OF COLD | AIR RETURN. |
|-----------|---------|---------------|------------|------|----------|---------|-------------|
| DUCTWORK | APPENAS | 1 9 (2 | 25 10 | 6000 | CINDINON | WHERE | VISIBLE |
| | | | | | | | |
| | ····· | | | | | | |
| | | | | | | | |

7. OCCUPANCY

| Is basement/lo | west level occupied? | Full-time | Occasionally | Seldom | Almost Never |
|-----------------------|-----------------------------|------------------|------------------------|-----------------------|--------------------|
| Level | General Use of Each | Floor (e.g., far | <u>nilyroom, bedro</u> | <u>om, laundry, w</u> | vorkshop, storage) |
| Basement | NOT APPLICA | BLE | | | _ |
| 1 st Floor | WORKSHOP OCC WORK DAY (7 | 30 AM - 5:00 | 2-9 PERSONS | THEOLOHIC | <u>`</u> † |
| 2 nd Floor | NOT APPLICABLE | ٤ | | | _ |
| 3 rd Floor | NOT APPLICAG | LE | | | _ |
| 4 th Floor | NOT APPLICA | BLE | | | ~ |

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

| a. Is there an attached garage? | Y (N) |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| b. Does the garage have a separate heating unit? | Y /NY NA |
| c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) | Please specify MISC. CASOLINE POWERED FAMILY PATE (SEE PHTP 100) |
| d. Has the building ever had a fire? | Y (N) When? |
| e. Is a kerosene or unvented gas space heater present? | Y (N) Where? |
| f. Is there a workshop or hobby/craft area? | (Y) Where & Type? North END of GUILDING. |
| g. Is there smoking in the building? | Y /N How frequently? |
| h. Have cleaning products been used recently? | (Y) N When & Type? 3/12/08 UNDEX |
| i. Have cosmetic products been used recently? | Y N When & Type? |

| j. Has painting/ | staining been done in the last 6 months? | Y N Whe | ere & When' | ? |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-------------------|
| k. Is there new | carpet, drapes or other textiles? | Y N Whe | ere & When' | ? |
| l. Have air fresl | neners been used recently? | YN Whe | en & Type? | |
| m. Is there a kit | tchen exhaust fan? | Y (N) If ye | es, where ver | nted? |
| n. Is there a ba | throom exhaust fan? | (Y)N If ye | es, where ver | ited? South and |
| o. Is there a clot | thes dryer? | Y 🔊 If ye | s, is it vente | d outside? Y / N |
| p. Has there bee | en a pesticide application? | Y (N) Whe | n & Type?_ | ······ |
| Are there odors If yes, please de | in the building? escribe: <u>FUEL AND SOLVENT DOOLS</u> AND STOP AREA. | YN DOSERVED T | HROLLHOL | T whatthuse |
| Do any of the built (e.g., chemical man boiler mechanic, pe | ding occupants use solvents at work? aufacturing or laboratory, auto mechanic or esticide application, cosmetologist | N auto body shop, | , painting, fi | uel oil delivery, |
| If yes, what types | s of solvents are used? SHIP SOLV, C | C. (SEE PRO | DUCT IN VE | wro ey) |
| If yes, are their c | lothes washed at work? | YN | | |
| Do any of the build response) | ling occupants regularly use or work at | a dry-cleaning s | service? (Ci | rcle appropriate |
| Yes, use dr Yes, use dr Yes, work a | y-cleaning regularly (weekly) y-cleaning infrequently (monthly or less) at a dry-cleaning service | No Unkr | ıown | |
| Is there a radon m Is the system active | itigation system for the building/structu e or passive? Active/Passive | re? Y/NDate | of Installation | on: |
| 9. WATER AND S | EWAGE | | | |
| Water Supply: | Public Water Drilled Well Drive | en Well Dug | Well (| Other: |
| Sewage Disposal: | Public Sewer Septic Tank Leac | h Field Dry V | Well C | Other: |
| 10. RELOCATION | NINFORMATION (for oil spill resident | ial emergency) | | |
| a. Provide reas | ons why relocation is recommended: | NOT APPL | ICABLE | |
| b. Residents ch | oose to: remain in home relocate to fr | iends/family | relocate to | o hotel/motel |
| c. Responsibilit | y for costs associated with reimburseme | nt explained? | Y / N | |
| d. Relocation pa | ackage 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.

Basement:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contam ination 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 FORM

Make & Model of field instrument used: RAE Systems MINIRAE 2000

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> |
|-----------|-----------------------------|-----------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------|
| SHOP AREA | PENETRATING DIL | 1534 07 | u | KEROSENE, NAPHTHENIC OIL , N-BUTANE, PROPANE, ETHYL ACETATE, ISOBUTANE | 0.0 ppm | У |
| | STARTING FULID | 1107 | | DIETHYL ETHER | | |
| | INTERIOR FATERIOR ENAMEL | 307 | | KETONES, ESTERS, DIDCTYL VATHALATE, ALIPHATIL/ARDMATIL/HYDROGENATED HYDROCARBONS | | |
| | SHOP SOLV | 16.507 | | HEPTANE, ETHANOL, METHANOL, CARDON DICKIDE | | |
| | PNEUMATIC TOOL LUBRICANT | 1 qt. | | Not SPECIFIED | | |
| | GLASS CLEANER | 181407. | | ISOPROPANUL, ISOUTANE, 2-BUTOXYETHANOL | | |
| | RUST TOUGH ENAMEL | 1207 | | KETONES, TOLLIENE, XYLENE | | |
| | ARRYLIC ENAMEL | 12 07 | | Not SPECIFIED | | |
| | OIL SUPPLEMENT | 802. | | NOT SPECIFIED | | |
| | WD-40 | 5.502 | | PETROLEUM DISTILLATES | | |
| | ANTISETZE LUBRICANT | 807. | | PETROLON DISTILIATES | | |
| | POLYURETHANE | 11072. | | KYLENE TOLLIENE ACETONE KETONES METALLIE PIGMENT | | |
| | CHROME FINISH | 1107 | | TOLLIENE, XYLENE | | |
| riaanna t | SANDABLE PRIMER | 1207 | | NOT SPECIFIED XYLENE, METHYLENE CHLORIDE | | |
| | CIFANER | 18.507 | | PROPANE ISOBUTANE A-BUTANE N-HEXANE OTHER HEXANE ISOMEKS | | |
| | SPRAY TRIM ADITESIVE | 17 07 | | CYCLOHEXANE, ISOBUTANE, PROPANE | | |
| | SYNTHETIC LUBRICANT | 55 GAL. | 0714-0744 | NOT (PECIFIED | | |
| | DOWBLE DRY | 1202 | | ISC PLOPYL | | |
| | FORM OIL | 55GAL | | NOT SPECIFIED | | en en sur selenne an en en en |
| V I | ALL PURPOSE ENAMEL | 1102 | V | ACETONE, XYLENE | J | |

* 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.

BTSA\Sections\SIS\Oil Spills\Guidance Docs\Aiproto4.doc

PHOTOGRAPHIC LOG FOR INDOOR AIR QUALITY BUILDING INVENTORY



Photograph #1 –General view of Taylor Rental warehouse area. Top of photo is north.



Photograph #2 – View of various types of gasoline-powered equipment stored in warehouse for rental.



Photograph #3 – View of equipment (salamander heater) used as a heat source, which is fueled by kerosene. Top of photo is north.



Photograph #4 – General view of tool repair/cleaning area, located in northern portion of warehouse. Top of photo is west.



Photograph #5 – Additional view of tool repair/cleaning area.





Photograph #7 – View of open container of fuel. Reading of area surrounding container was 73 ppm using photoionization detector (PID).



Photograph #8 -View of various solvents/cleaners used in shop area.



Photograph #9 - View of additional solvent/cleaner storage located in shop area.



Photograph #10 – View of waste oil drum and synthetic lubricant drum (background), located in shop area.



Photograph #11 - View of additional storage rack for solvent/cleaners, located in shop area.



Photograph #12 – View of form oil drum, located in shop area.



Photograph #13 – View of front desk/tool rental area.



Photograph #14 – View of diesel fuel tank in warehouse area.



ATTACHMENT B

Field Sampling Forms



| national | a | ri | d |
|----------|---|-----|---|
| | 3 | • • | |

Sub-slab Vapor (Canister) Sample Collection Field Form

| Consultant | BOWN | and Caldwe |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Collector | esni | IBMR |
| | | |
| Vacuum gauge ' Start Pressure (' End Pressure ("ł | 'zero" ("Hg) 'Hg) Hg) | - 29.6 - 30.0 - 5.6 |
| End pressure > " Sampling duratio | zero"? n (intended) | yes 34 minute |
| 1 to 3 volumes pr Wind d Wind s 24 to 48 hrs: | irged @ <2000 | SE 6.9 |
| lative humidity (%) Photograph IDs | N | Ą |
| eferential pathways | | |
| shep gan | yc. | |
| | Consultant Collector Vacuum gauge ' Start Pressure (" End Pressure > " Sampling duratio ssociated ambient air 7 Tubing 1 to 3 volumes pu Wind d Wind s 24 to 48 hrs: lative humidity (%) Photograph IDs referential pathways | Consultant Collector Collector Collector Collector Collector Collector Consultant Collector Consultant and the constraint of the constrain |
| national | gr | id |
|----------|----|----|
|----------|----|----|

Sub-slab Vapor (Canister) Sample Collection Field Form

| Project # 129862.103 Project Name Oswego, W. Utica St. Phasell SVI | Consultant Collector | Brown CFM | and Caldwee BMR |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------|
| Sample ID $SS-2$ Start Date/Time $3/18/08/10:20$ End Date/Time $3/18/08/10:50$ Canister ID $2/639$ Flow controller ID $0/1$ Associated indoor air sample ID $1A-2$ | Vacuum gauge Start Pressure (End Pressure (" End pressure > Sampling duration | "zero" ("Hg) "Hg) Hg) "zero"? on (intended) ir sample ID | -29.6 -30.0 -4.0 yes 30 minutes 0A-2 |
| Tubing type used $\int_{00^{\circ}}^{00^{\circ}} \frac{g_{\text{feff}}}{f_{\text{eff}}}$ Length of tubing 2.8 Volume purged $.045 \downarrow 96^{\circ}$ $.2 \downarrow /$ min | t Jeff Tubin 1 to 3 volumes p | g volume urged @ < 200ec | 015 L or ormin: Yes |
| Air temperature (°F) 35.1^{2} Rainfall <u>NA</u> Barometric pressure <u>30.31</u> | Wind o Wind s to 48 hrs: | direction speed (mph) | ESE 13.8 |
| ndoor air temp (°F) <u>65,7°</u> Indoor relat luilding Survey and Chemical Inventory Form Completed? <u>Yes</u> | tive humidity (%) Photograph IDs | N# | 7 |
| N | lerential pathways | | |
| mments: | | | |

| Sub-slab Vapor (Canister) Sample Collection Field Fo | rm |
|------------------------------------------------------|----|
|------------------------------------------------------|----|

| $\frac{P_{MWE} II SV}{Collector} CJM BMR$ $\frac{CJM BMR}{CJM BMR}$ $\frac{Vacuum gauge "zero" ("Hg) -39.6}{Start Pressure ("Hg) -39.5}$ End Pressure ("Hg) -4.5 End Pressure ("Hg) -4.5 End Pressure "Hg) -4.5 End pressure > "zero"? Yes Sampling duration (intended) 30 minut fe Associated ambient air sample ID OA-3 ubing 2.9' eff Tubing volume 0.020 L/6 L/min 1 to 3 volumes purged @ equectments? Yes NA Wind direction ESE Wind speed (mph) 13.8 ng or over the past 24 to 48 hrs: $\frac{1}{2}$ Indoor relative humidity (%) NA $\frac{45}{2}$ Photograph IDs $\frac{45}{2}$ $\frac{45}{2}$ $\frac{45}{2}$ $\frac{45}{2}$ $\frac{45}{2}$ $\frac{45}{2}$ $\frac{45}{2}$ $\frac{45}{2}$ | Project # 129862,103 | Consultant | Brown and Caldw |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|
| Vacuum gauge "zero" ("Hg) -29.6 Start Pressure ("Hg) -39.5 End Pressure ("Hg) -39.5 End Pressure ("Hg) -4.5 End pressure > "zero"? Yes Sampling duration (intended) 30 minutes Associated ambient air sample ID $OA-3$ ubing 2.9^{1} and Tubing volume 020 L/m L/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $2000 cmm$? Yes 21/min 1 to 3 volumes purged @ $20000 cmm$? Yes 3000000 cmm 2 to 48 hrs: 1000000000000000000000000000000000000 | Project Name OSWEGO, WUTICA St. Phuse | ISV) Collector | CTM BMR |
| Vacuum gauge "zero" ("Hg) -29.6 Start Pressure ("Hg) -37.5 End Pressure ("Hg) -4.5 End pressure > "zero"? -4.5 Sampling duration (intended) 30 minutes Associated ambient air sample ID $OA-3$ ubing $2.9'$ off Tubing volume 02.0 L/c L/min 1 to 3 volumes purged @ $200commers$ $42.5NA Wind direction ESEWind speed (mph) 13.8NG or over the past 24 to 48 hrs:Indoor relative humidity (%) NA? 42.5 Photograph IDsdoor air sources, preferential pathways6.8'4.8'4.8'4.8'Wind Wind direction CA-3Wind Speed (mph) AA? 42.5 Photograph IDs$ | Sample ID SS-3 | | |
| Start Pressure ("Hg) -34.5 End Pressure ("Hg) -4.5 End Pressure > "zero"? 425 Sampling duration (intended) 30 minutes Associated ambient air sample ID $0A-3$ ubing $2.9'$ and Tubing volume 020 L for L min 1 to 3 volumes purged @ 2000 cmm? 405 NA Wind direction ESE Wind speed (mph) 13.8 ng or over the past 24 to 48 hrs: Indoor relative humidity (%) NA ? 425 Photograph IDs door air sources, preferential pathways 6.8' 30 minutes 6007 air sources, preferential pathways 6.8' 30 minutes 6007 air sources, preferential pathways 6.8' 30 minutes 30 minutes 30 minutes 0007 air sources, preferential pathways 4007 minutes 4007 minutes | Start Date/Time 3/18/08 /0:38 | Vacuum gauge "z | ero" ("Hg) <u>-29.6</u> |
| End Pressure ("Hg) -77.5 End pressure > "zero"? <u>Yes</u> Sampling duration (intended) <u>30 minute</u> Associated ambient air sample ID <u>0A-3</u> ubing <u>2.9'</u> of Tubing volume <u>020 L fc</u> <u>L / min 1 to 3 volumes purged @ 200ccmm?</u> <u>Yes</u> <u>.2 L / min</u> <u>NA</u> Wind direction <u>ESE</u> Wind speed (mph) <u>13.8</u> ng or over the past 24 to 48 hrs: <u></u> | Ind Date/Time 3/18/08 // 08 | Start Pressure ("H | $\frac{-29.5}{45}$ |
| $\frac{-2}{30} \frac{-2}{30} \frac{-2}{3} \frac{-2}{30} \frac{-2}{3} $ | anister ID 12454 | End pressure > "7 | |
| Associated ambient air sample ID $OA-3$ tubing 2.9^{1} of Tubing volume $020 L fc$ L fmin 1 to 3 volumes purged @ $200ccmm?$ $4252Lfmin$ $425NA$ Wind direction $ESEWind speed (mph) 13.8ng or over the past 24 to 48 hrs:Indoor relative humidity (%) NA? ACS Photograph IDsdoor air sources, preferential pathways6.8^{1} CA-3Wind Wind Wind Wind Wind Wind Wind Wind$ | low controller ID 81 | Sampling duration | (intended) 20 main t |
| tubing $2.9'$ off Tubing volume $0.20 L$ fo L min 1 to 3 volumes purged @ $200ccrmm?$ $425.2L/minNA Wind direction ESEWind speed (mph) 13.8ng or over the past 24 to 48 hrs:Indoor relative humidity (%) NA? 425 Photograph IDsdoor air sources, preferential pathways4.8'3.3'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.8'4.$ | ssociated indoor air sample IDNA | Associated ambient air s | Sample ID $OA - 3$ |
| Image: Second system It to 3 volumes purged @ <200cc/mm? | ubing type used $\int \frac{1}{2} \frac{1}{4} $ | 2.9' Tubing | |
| NA Wind direction ESE Wind speed (mph) 13,8 ng or over the past 24 to 48 hrs: Indoor relative humidity (%) NA Photograph IDs door air sources, preferential pathways 6.81 CA-3 War | Dlume purged . 0 60 L 26@ . 2 L / m | nin 1 to 3 volumes purg | ged @ < 200cc/min ? |
| NA Wind direction ESE Wind speed (mph) 13.8 ng or over the past 24 to 48 hrs: Indoor relative humidity (%) NA ? Photograph IDs door air sources, preferential pathways Image: Signal of the color of the | eather Conditions at Start of Sampling | | .24/min 7=0 |
| Wind direction ESE Wind speed (mph) 13,8 ng or over the past 24 to 48 hrs: Indoor relative humidity (%) NA Photograph IDs door air sources, preferential pathways CA-3 Wind direction ESE NIA OA-3 | temperature (°F) 215 ⁶ F Bainfall NJ | 1 | - • • |
| Wind speed (mph) 13.8 ng or over the past 24 to 48 hrs: Indoor relative humidity (%) NA Photograph IDs door air sources, preferential pathways • OA-3 WMM | rometric pressure 30.31m | Wind dire | ection <u>ESE</u> |
| Indoor relative humidity (%) NA Indoor relative humidity (%) NA Photograph IDs door air sources, preferential pathways • CA-3 wWW | bstantial changes in weather conditions of the | wina spe | eed (mph) 13,8 |
| Photograph IDs door air sources, preferential pathways 4.8' W SS W OA-3 WOY WWW | oor air temp (°F) <u>63.7°</u> F Ind | loor relative humidity (%) | NA |
| e.s' with SSS with SSSS with SSSSS with SSSS with SSSS with SSSS with SSSS with SSSS with SSSS with SSSS with SSSS with SSSS with SSSSS with SSSS with SSSS with SSSS with SSSSS with SSSSSS with SSSSSS with SSSSSS with SSSSSS with SSSSSS with SSSSSS with SSSSSS with SSSSSSSSSS with SSSSSSSSSSS with SSSSSSSSSSS with SSSSSSSSSSSS | - 4-23 | Photograph IDs | |
| 4.8' autor autor autor autor | or Plan showing sample location, HVAC equipment, indoor air sour | ces, preferential pathways | |
| aver 34:55 34:55 auflor autr | 6.81 | |] |
| entral entral | N de | 24 | |
| autor entre | <u>س</u> ۲ ۵ | • 0A-3 | |
| antal | ي تې | 3 | |
| entral | tulor | | |
| | autol | | |
| | Row | | |
| | | | |
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| | iments: | | |
| | | | |

| Project # Project Name | 129862.103 Wege, W. Uticer Phasell S | Consultant | Brown | and Caldw BMR |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------|
| Sample ID | SS-4 | | | |
| Start Date/Time | 3/18/08 15:33 | Vacuum gauge | "zero" ("Hg) | -29.6 |
| End Date/Time | 3/18/08 16:03 | Start Pressure (| ("Hg) | - 29.5 |
| Canister ID | 6134 | End pressure (" | 'Hg) " | - 4, 5 |
| Flow controller ID | 14 | Sampling durati | Zero"? | yes_ |
| Associated indoor air s | sample ID 1A-4 80P | Associated ambient a | ir sample ID | 0A-4 |
| ubing type used | od-grade <u>fillon</u> Length of tubing | 3.0° on Tubin | | 0161 |
| olume purged | .048L¢@ _2 L/mi | in 1 to 3 volumes p | | CTC L pc |
| (anthor Constitution) | | | . 2L | min? yes |
| arometric pressure | 39.13 Rainfall 0.00 | Dim Wind s Wind s past 24 to 48 hrs: | direction speed (mph) | South 9.2 |
| arometric pressure ubstantial changes in door air temp (°F) | 39.2 Rainfall 0.00 30.13in | Dim Wind s Wind s past 24 to 48 hrs: 000r relative humidity (%) | direction speed (mph) | South 9.2 A |
| arometric pressure ubstantial changes in door air temp (°F) ilding Survey and Che | 39.2 Rainfall 0.00 30.13in weather conditions during sampling or over the | Om Wind s Wind s past 24 to 48 hrs: oor relative humidity (%) Photograph IDs | direction speed (mph) N | South 9.2 A |
| arometric pressure ubstantial changes in door air temp (°F) ilding Survey and Che | 39.2 Rainfall 0.00 30.13in weather conditions during sampling or over the weather conditions during sampling or over the 53.96 Index semical Inventory Form Completed? Yes sple location, HVAC equipment, indoor air source | Om Wind s past 24 to 48 hrs: Wind s oor relative humidity (%) Photograph IDs Sees, preferential pathways | direction | South 9.2 A |
| arometric pressure ubstantial changes in door air temp (°F) ilding Survey and Che | 39.2 Rainfall 0.00 30.13in weather conditions during sampling or over the weather conditions during sampling or over the 53.96 Index smical Inventory Form Completed? Yes sple location, HVAC equipment, indoor air source Multidity 31.4 ss ⁻⁴ 1.1' | Om Wind a Wind a Wind a past 24 to 48 hrs: Wind a oor relative humidity (%) Photograph IDs Ses, preferential pathways Image: Sestimate of the set of the s | directionspeed (mph)N | A |
| arometric pressure ubstantial changes in door air temp (°F) ilding Survey and Che | 39.2 Rainfall 0.00 30.13in weather conditions during sampling or over the 53.96 Index smical Inventory Form Completed? 45 sple location, HVAC equipment, indoor air source Mathematical SS-4 31.4 SS-4 1.11 1.11 | Om Wind a Wind a Wind a past 24 to 48 hrs: Wind a oor relative humidity (%) Photograph IDs Sees, preferential pathways Image: Construction of the set of t | direction | A |

| Project # 129862,103 Project Name OSWego, W. Utica St. Phase 115 | Consultant | Brown CJM | and Caldwin IBMR |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------|
| Sample ID $SS-5$ Start Date/Time $3/18/08$ $11:49$ End Date/Time $3/18/08$ $12:19$ Canister ID 02.639 Flow controller ID 38 Associated indoor air sample ID $1A-5$ | Vacuum gauge Start Pressure (End Pressure (End pressure > Sampling durati Associated ambient a | "zero" ("Hg) "Hg) Hg) "zero"? on (intended) ir sample ID | -29.6 -29.5 -4.5 -4.5 - - 4.5 |
| Tubing type used <u>food-grade</u> /olume purged <u>の34</u> 上女@ <u>,2</u> 上/ min | Tubir 1 to 3 volumes p | ig volume <u>ל</u> urged @ < 200cc ערקבע | ofmino? yes |
| ir temperature (°F) 39.9° Rainfall NA arometric pressure 30.20 | Wind Wind | direction - | ESE |
| ubstantial changes in weather conditions during sampling or over the p | past 24 to 48 hrs: | speea (mpn) _ | 8.1 |
| ubstantial changes in weather conditions during sampling or over the p door air temp (°F) <u>د ۲۰۶</u> Indo nilding Survey and Chemical Inventory Form Completed? <u>۲۰۶</u> | poast 24 to 48 hrs: por relative humidity (%) Photograph IDs | speed (mpn) | 8.1 1A |

| national g | ridSub-slab Vapor (Car | nister) Sample Collection F | Field Form |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project # Project Name OS | 129 862.103 Wego, W. Utica St A | Consultant | Bown and Caldwel |
| Sample ID Start Date/Time End Date/Time Canister ID Flow controller ID Associated indoor air Tubing type used Volume purged Weather Conditions a Air temperature (°F) Barometric pressure Substantial changes in | $\frac{DUP 031808}{3[18]08}$ $\frac{3[18]08}{11.49}$ $\frac{3[18]08}{12:19}$ $\frac{128 20}{08}$ sample ID $\frac{128 20}{08}$ sample ID $\frac{1A-5}{160}$ Length of tub $\frac{0391}{6}$ $\frac{39.91}{6}$ Rainfall $\frac{39.92}{30.20}$ m weather conditions during sampling | SS Vacuum gaug Start Pressure End Pressure End pressure Sampling dura Associated ambient ing <u>2.6</u> of Tub <u>1 to 3 volumes</u> <u>NA</u> Win Win or over the past 24 to 48 hrs: | e "zero" ("Hg) -29.6 e ("Hg) -30.6 ("Hg) -3.5 > "zero"? $4e3$ air sample ID $0A-5$ bing volume $-013L$ fc purged @ $200ec/mtn?$ $4e3$ -3.5 0A-5 bing volume $-013L$ fc purged @ $200ec/mtn?$ $4e3$ -20fmin $4e3-20fmin$ $-20fmin$ $4e3-20fmin$ $-20fmin$ $4e3-20fmin$ $-20fmin$ $-20f$ |
| Indoor air temp (°F) Building Survey and C | 60.8 hemical Inventory Form Completed? | Indoor relative humidity (% | NA |
| Floor Plan showing sa | ample location, HVAC equipment, ind | oor air sources, preferential pathwa Sons B Hauy | iys |

| Project Name $OSWege, W.UkcaSt Phase USVI Sample ID 1A - 2 Start Date/Time 3 [18 [08 7:5H Start Pressure ("Hg) - 30.0 End Date/Time 3 [18 [08 15:5H End Pressure ("Hg) - 4,5 End Date/Time 3 [18 [08 15:5H End Pressure > "zero"? 423 Start Pressure > "zero"? 423 Sample ID 63.65 End Pressure > "zero"? 423 Associated ambient air sample ID 0A-2 Associated sub-stab vapor sample ID 3S - 2 Tubing type used \frac{1004 - 2}{100} Length of tubing \frac{1.0'}{100} pm Tubing volume \frac{NA}{cc} coVolume purged \frac{NA}{cc} co \frac{NA}{min} 1 to 3 volumes purged \frac{200cc/min?}{NA}Weather Conditions at Start of Sampling:Wind direction ESE\frac{4000}{2} [12] \frac{100}{100} Raintall \frac{NA}{cc} Wind direction ESE\frac{4000}{2} [12] \frac{100}{100} A \frac{100}{2} [10] \frac{100}{2} Photograph IDs\frac{100}{2} [13] \frac{100}{2} [13] \frac{100}{2} [10] \frac{100}{2} [$ | Project # | 129862.103 | | Ť | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------|-----------------------------------------|----------------------|------------------------|
| Sample ID $IA - 2$ Vacuum gauge "zero" ("Hg) -29.4 Start DaterTime $2 18 08$ $7:54$ Start Pressure ("Hg) -30.0 Canister ID 63.65 End Pressure ("Hg) -4.5 Canister ID 63.65 End pressure > "zero"? 44.5 Sampling duration (intended) $8hourt S$ Associated ambient air sample ID $OA-2$ Associated sub-stab vapor sample ID $SS - 2$ Tubing type used $food - 9$ $fad.2$ Associated sub-stab vapor sample ID $SS - 2$ Wolume purged NA co.@ NA min 1 to 3 volumes NA Volume purged NA Mainfail NA Wind direction ESE atomether conditions at Start of Sampling: $Ur temperature (F)$ 21.0° Palitive humidity GI $Gild = Gild =$ | Project Name OS | swego, W. uticast Phase 11 sv | Consultant Collector | Com | BMR |
| Start Date/Time $3 1 \times 0 \times 1 \times 5 + 1 \times 5 \times 5 + 1 \times 5 + 1 \times 5 $ | Sample ID | 1A-2 | | | |
| Les des hinds $\frac{2}{18} \frac{18}{108} \frac{15}{15} \frac{15}{54}$ End Pressure ("Hg) $-\frac{4}{55} \frac{5}{54}$ Filow controller ID $\underline{k} - 259$ Sampling duration (intended) $\underline{k} - 259$ Associated ambient air sample ID $OA-2$ Associated sub-slab vapor sample ID $\underline{35-2}$ Tubing type used $100-9$ solution tength of tubing $\underline{1.0'}$ of Tubing volume \underline{NA} oc wolume purged \underline{NP} co $\underline{0}$ \underline{NA} min 1 to 3 volumes purged $\underline{0} < 200 \text{ cc/min}$? \underline{NA} Weather Conditions at Start of Sampling: is temperature ("F) $\underline{27.0'}$ Rainfall \underline{NA} Wind direction \underline{ESE} advanter conditions during sampling or over the past 24 to 48 hrs: $\underline{4000} \underline{MN}$ $\underline{0} \underline{NP}$ $\underline{10}^{\circ}$ \underline{MP} $\underline{10}^{\circ}$ \underline{MP} $\underline{100}^{\circ}$ \underline{MP} $\underline{100}^{\circ}$ door air temp ("F) $\underline{42.8''}$ Indoor relative humidity (%) \underline{NA} advanted the formulation for the past 24 to 48 hrs: $\underline{4000} \underline{MN}$ $\underline{10}^{\circ}$ \underline{MP} $\underline{10}^{\circ}$ \underline{MP} $\underline{10}^{\circ}$ \underline{NP} $\underline{100}^{\circ}$ door air temp ("F) $\underline{42.8''}$ Indoor relative humidity (%) \underline{NA} $\underline{100}^{\circ}$ $\underline{15}^{\circ}^{\circ}^{\circ}^{\circ}$ Indoor relative humidity (%) \underline{NA} $\underline{100}^{\circ}$ $\underline{15}^{\circ}^{\circ}^{\circ}^{\circ}^{\circ}^{\circ}$ $\underline{100}^{\circ}$ $\underline{100}^{\circ}^{\circ}^{\circ}^{\circ}^{\circ}^{\circ}^{\circ}^{\circ}^{\circ}^{\circ$ | Start Date/Time | 3/18/08 7:54 | Vacuum gauge Start Pressure (| "zero" ("Hg) "Hg) | -29.4 |
| Flow controller ID $\underline{k} - 2\overline{bq}$ Sampling duration (intended) Associated ambient air sample ID $OA-2$ Associated sub-slab vapor sample ID $\underline{SS-2}$ Tubing type used $\int 00d^{-1}\underline{C} \ tadle$ Length of tubing $\int O' \ con^{-1}$ Tubing volume $\underline{NA} \ cc$ volume purged $\underline{NR} \ cc \oplus \underline{NA} \ min \ 1 \ to \ 3 \ volumes \ purged \ @ < 200cc/min? \ \underline{NA} \ cc}$ Veather Conditions at Start of Sampling: in temperature (°F) $\underline{27.0^{\circ}}$ Rainfall $\underline{NA} \ wind \ direction \ \underline{ESE} \ 30.42^{''}$ Relative humidity $\underline{O3.1}$. Wind \ direction \ \underline{ESE} \ 4.2 \ Mind \ speed \ (mph) \ \underline{q.2} \ durated \ approx 10^{''} \ Mind \ max \ Mind \ max | Canister ID | 6365 | End Pressure ("Hg) | | |
| Associated ambient air sample ID $OA-2$ Associated sub-slab vapor sample ID $SS-2$ Tubing type used $OA-2$ Associated sub-slab vapor sample ID $SS-2$ Tubing type used $OA-2$ Length of tubing $I.O'$ on Tubing volume NA cc OA-2 NA min 1 to 3 volumes purged @ < 200cc/min? $NAVeather Conditions at Start of Sampling:in temperature (°F) 27.O^{\circ} Rainfall NA Wind direction ESEarometric pressure 30.42'' Relative humidity G3T. Wind speed (mph) 4.2ubstantial changes in weather conditions during sampling or over the past 24 to 48 hrs:400Madvile AC Apple 10' Mrovghout Aamp IMg$. Slight valA beginA at $afAx 14:00$. door air temp (°F) 42.8° Indoor relative humidity (%) NA iding Survey and Chemical Inventory Form Completed? AeS Photograph IDs or Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways N | Flow controller ID | K-259 | End pressure > ' Sampling duratic | "zero"? | yes |
| Tubing type used $00d - 0 \text{ table}$ Length of tubing 1.0° of Tubing volume NA | Associated ambient ai | r sample ID OA-2 Asso | ciated sub-slab vapor s | ample ID | <u>8 Nours</u> 85-2 |
| /olume purged NA cc@ NA min 1 to 3 volumes purged @ < 200cc/min? | Tubing type used for | od-grade | O' cer Tubia | | IA |
| Weather Conditions at Start of Sampling: NA Wind direction ESE ir temperature (°F) 27.0° Rainfall NA Wind direction ESE arometric pressure 30.42" Relative humidity C3.1. Wind direction ESE ubstantial changes in weather conditions during sampling or over the past 24 to 48 hrs: | olume purged | NP cc@ NA min | 1 to 3 volumes pu | rged @ < 200cc | |
| In temperature (°F) 27.0° Raintall NA Wind direction ESE arometric pressure 30.42" Relative humidity 031. Wind speed (mph) 9.2 ubstantial changes in weather conditions during sampling or over the past 24 to 48 hrs: <u>Humperature Ne approx IO' Mrovalkout samp live</u> Slight valn begins at approx 14:00. NA loor air temp (°F) 42.8° Indoor relative humidity (%) NA idding Survey and Chemical Inventory Form Completed? <u>Yes</u> Photograph IDs or Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways N Mumber 1.5' Mumber 2.5' Mumber 2.5' Mumber 2.5' Mumber 2.5' Mumber 2.5' | leather Conditions at | Start of Sampling: | | | |
| Intensity plessing | Ir temperature (°F) | 27.0° Rainfall NA | Wind c | lirection | ESE |
| loor air temp (°F) <u>42.8°</u> indoor relative humidity (%) <u>NA</u> ilding Survey and Chemical Inventory Form Completed? <u>Yes</u> Photograph IDs or Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways N OA-3 I.5' Adiantege Carpets. | slight | ain begins at approx 19: | out samp ling | í. | |
| N OR-3 II.5 IA-2 S Mantage Carpets. | loor air temp (°F) ilding Survey and Che | mical Inventory Form Completed? | relative humidity (%) Photograph IDs | N | A |
| N OA-J IIIS' HIA-2 S' Adiantage Carpets. | or Plan showing sam | ple location, HVAC equipment, indoor air sources, | preferential pathways | | |
| Advantage Carpets. | *N | 0A-2 1.5' | | | |
| mente | | Adiantage Carp | etz. | | |
| nents. | iments: | | | | |

Indoor Air (Canister) Sample Collection Field Form

| Project Name | 29862 103 25 Weezo, W. Utica St. | Consultant PhaxIISVI Collector | Brown and Caldw. CJM IBMR |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample ID Start Date/Time End Date/Time Canister ID Flow controller ID Associated ambient ai | <u>IA-4</u> <u>3/18/08</u> 9:06 <u>3/18/08</u> 16:55 1123 <u>K-107</u> rsample ID <u>0A-4</u> | Vacuum gauge Start Pressure (* End Pressure (* End pressure > * Sampling duratio Associated sub-slab vapor s | $\frac{1}{2} \text{ ero" ("Hg)} - \frac{29.4}{-30.0}$ $\frac{-14.6}{2}$ $\frac{-14.6}{9}$ $\frac{-14.5}{9}$ $\frac{4.5}{9}$ |
| Tubing type used of the second | NA cc@ NP | min 1 to 3 volumes pu | rged @ < 200cc/min? NA |
| ubstantial changes in v Slight | veather conditions during sampling or of VMN beginning at 47.1° | over the past 24 to 48 hrs: <u>Approx</u> 4000 | |
| uoor air temp (°F) | mical Inventory Form Completed? | Photograph (%) | <u></u> NH |
| uilding Survey and Che Dor Plan showing samp | mical Inventory Form Completed? | Photograph IDs air sources, preferential pathways | <u></u> |
| ooor air temp (°F) uilding Survey and Che <u>por Plan showing sam</u> N | mical Inventory Form Completed? ple location, HVAC equipment, indoor a McMcM But 36.9' | Photograph IDs Photograph IDs air sources, preferential pathways M Idu ' Idu ' Idu ' Idu ' A-4 | |

Indoor Air (Canister) Sample Collection Field Form

| Project Name OS | 29862.10 Wego,W.Uh | ica St. Phas | Consulta ℓ ∐ SVI Collector | ant <u>Brown</u> | n and Caldu IBMR |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------|---------------------------|
| Sample ID | SUP 031- 3/18/08 | 808-1A 9:06 | Vacuum g Start Pres | auge "zero" ("Hg) sure ("Ho) | - 29.4 |
| nd Date/Time anister ID ow controller ID | 3 18 08 631 K-34 | 16:55 67 F9 | End Press | ure ("Hg) Jre > "zero"? | -11.5 -11.5 |
| ssociated ambient air | sample ID | 0A-4 , | Associated sub-slab v | luration (intended) apor sample ID | <u>8 hours</u> <u></u> |
| lume purged | NA cc@ | Length of tubing | in 1 to 3 volum | Tubing volume | NA cc lcc/min? NA |
| rometric pressure | 36.38 in | Relative humidity | v | Vind direction | ESE |
| | veather conditions dur | ring sampling or over the | past 24 to 48 hrs: | mia speed (mpn) | 11.5 |
| ostantial changes in w or air temp (°F) | 47.10 nical Inventory Form | ring sampling or over the | past 24 to 48 hrs: oor relative humidity (Photograph II | %) <u>N P</u> Ss | 4 |
| ostantial changes in w or air temp (°F) ding Survey and Chen r Plan showing samp | veather conditions dur 47.1° nical Inventory Form of ple location, HVAC eq | ring sampling or over the Ind Completed? | past 24 to 48 hrs: oor relative humidity (Photograph II ces, preferential pathw | %) <u>N P</u> %) <u>N P</u> Os | 4 |

| | nd Call |
|--------------------------------|------------|
| llector CJM B | MR |
| | |
| uum gauge "zero" ("Hg) | 29.4 |
| t Pressure ("Hg) | 27.6 |
| Pressure ("Hg) | 6,5 |
| pressure > "zero"? | Jes |
| pling duration (intended) $8k$ | nours |
| slab vapor sample ID5 | <u>s-5</u> |
| | |
| CPM Tubing volume NA | cc |
| | 10.11 |
| aht Nampling. | |
| | |
| nidity (%) | |
| raph IDs | |
| Inothura | |
| i patriways | |
| | |
| | |
| | |

| Ambient Air (Canister) Sample C | Collection Field Form |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project # 129862.103 Project Name OSWego W. Uticast. Phase IISV | Consultant Brown and Caldwell Collector CFM BMR |
| Sample ID $OA - 1$ Start Date/Time $3 18 c8 s5:37$ End Date/Time $3 18 c9 b:37$ Canister ID 0001 Flow controller ID $K - 187$ Tubing type used $pod - 9radic Volume purged NA cc@ NA $ | Vacuum gauge "zero" ("Hg) -29.2 Start Pressure ("Hg) -30.0 End Pressure ("Hg) -5.5 End pressure > "zero"? 423 Sampling duration (intended) $8hovr$ / |
| Weather Conditions at Start of Sampling: Air temperature (°F) <u>30.0°</u> Rainfall <u>NA</u> Barometric pressure <u>30.38°</u> Relative humidity <u>56</u> Substantial changes in weather conditions during sampling or over the past 24 <u>SUGNE VAIN BEGINNING AT OPPREX 14</u> | Wind direction ESE I Wind speed (mph) III_5 to 48 hrs: OO |

Site Plan showing sample location, building(s) being sampled, build

| PN | s(c) song sampled, building HVAC inlet, outdoor air sources, wind direction | 7 |
|-----------|-----------------------------------------------------------------------------|---|
| | Con Shaf | |
| Comments: | e o t | |

| | | reid Form | |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Project # Project Name C | 129862, 103 Swego W. Utica St Phase | Consultant Brown | and Caldwell "IBMR |
| Sample ID | OA-2 | | |
| Start Date/Time End Date/Time Canister ID Flow controller ID | 3/18/08 7:45 3/18/08 15:45 6356 K-326 | Vacuum gauge "zero" ("Hg) Start Pressure ("Hg) End Pressure ("Hg) End pressure > "zero"? Sampling duration (intended) | -29.1 -30.0 -5.0 yes 8 hour |
| Volume purged | <u>NA</u> cc@ <u>NA</u> mi | <u>9</u> Tubing volume in 1 to 3 volumes purged @ < 200c | NA c/min?N/A |
| Air temperature (°F) Barometric pressure Substantial changes in Yempe Mig Ht | 27.0 Rainfall 30.41 Relative humidity weather conditions during sampling or over the patter of approx 10 value of approx 10 rain begins at approx | NA Wind direction 637. Wind speed (mph) past 24 to 48 hrs: during Manpling 14:00 | ESE 9.2 |

Ambient Air (Canister) Sample Collection Field F

Site Plan showing sample location, building(s) being sampled, building HVAC in

| TN | g and the sources, wind direction | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | of sa and the second of the se | |
| | Advantage carpets | |

Comments:

| and the complete | Collection Field Form |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project # 129862.103 Project Name Osweego, W. Utica St Phasells | Consultant Brown and Caldwell |
| Sample IDOA-3 | |
| Start Date/Time $3/18/08$ $8:34$ End Date/Time $3/18/08$ $1/6:34$ Canister ID 6627 Flow controller ID $K-185$ | Vacuum gauge "zero" ("Hg) $-\mathcal{J}\mathcal{A}.\mathcal{I}$ Start Pressure ("Hg) 730 End Pressure ("Hg) -7.5 End pressure > "zero"? $\mathcal{J}\mathcal{L}S$ Sampling duration (intended) \mathcal{S} |
| Tubing type used Dova fulling Length of tubing 2.01 Volume purged NA cc @ NA min | to 3 volumes purged @ < 200cc/min? |
| Vir temperature (°F) 30.0° Rainfall NA Barometric pressure 30.38° Relative humidity 50 ubstantial changes in weather conditions during sampling or over the past 24 $AUQHVAW$ 60143 $AUQHVAW$ 60143 | Wind direction <u>ESE</u> Wind speed (mph) <u>11.5</u> to 48 hrs: |

Site Plan showing sample location, building(s) being sampled, building HVAC inlet, outdoor air sources, wind direction *N Taylor Pental Rental Comments:

| | | relicenon riela Form | | |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Project # Project Name <i>Č</i> | 129862 - 103 Swege w. Utica St. Phase II SVI | Consultant <u>Brown and Caldwell</u> Collector <u>CTM/BMR</u> | | |
| Sample ID | OA-4 | | | |
| Start Date/Time End Date/Time Canister ID Flow controller ID | 3/18/08 8:55 3/18/08 16:30 2905 K-352 | Vacuum gauge "zero" ("Hg) -29.2 Start Pressure ("Hg) -30 End Pressure ("Hg) -5.0 End pressure > "zero"?YesSampling duration (intended) 8 hours | | |
| Volume purged | NA_cc@ | cm Tubing volumeNAcc 1 to 3 volumes purged @ < 200cc/min?NA | | |
| Air temperature (°F) Barometric pressure Substantial changes in | t Start of Sampling: <u>30,0°</u> Rainfall <u>N</u> <u>30,34''</u> Relative humidity <u>5</u> weather conditions during sampling or over the past 24 (all begins above 4:00 | A Wind direction <u>ESE</u> 61. Wind speed (mph) <u>11.5</u> 4 to 48 hrs: | | |

Ambient Air (Canister) Sample Collection Field Fo

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| Project # 129862.103 ConsultantBrown and CaldProject Name CSN/290 W HicaSt. Phasell SVICollectorBrown and CaldSample ID $OA - 5$ Vacuum gauge "zero" ("Hg) -29.1 Start Date/Time 318697 129 Vacuum gauge "zero" ("Hg) -29.1 End Date/Time 318697 1529 End Pressure ("Hg) -29.1 Canister ID 32.94 End pressure "Hg) -5.5 Flow controller ID $K - 225$ Sampling duration (intended) NA ocVolume purged NA cc @ NA min1 to 3 volumes purged @ <200cc/min? | | Ambient Air (Caniste | r) Sample (| Collection Field | <u>d Form</u> | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------|-----------------|-------------------------|----------------|----------------------|
| Sample ID $OA - 5$ Vacuum gauge "zero" ("Hg) -29.1 Start Date/Time $3 18 09 120$ 129 Start Pressure ("Hg) -29.1 End Date/Time $3 18 04 1529$ End Pressure ("Hg) -5.5 Canister ID 3296 End Pressure ("Hg) -5.5 Flow controller ID $K - 225$ Sampling duration (intended) 8 Tubing type used $ford - gradeK - 225Sampling duration (intended)8Volume purgedNA - cc @NA - min - 1 to 3 volumes purged @ < 200cc/min?NA - ccWeather Conditions at Start of Sampling:Air temperature ("F)21.0^{\circ}RainfallNA - ccBarometric pressure30.411Relative humidity631.^{\circ}Wind directionESESubstantial changes in weather conditions during sampling or over the past 24 to 48 hrs:MrgMt Vain beer M at an DroxM' duration MarginMrgMt - MrgMt Nain beer M at an Drox$ | Project # Project Name 🔿 | 129862.103 Swego W. Utica St. Phase | 11 SV1 | Consultant Collector | Brown | and Caldwell IBMR |
| Start Date/Time $3 18 09 1 : 29 $ Vacuum gauge "zero" ("Hg) $-29 : 1$ End Date/Time $3 18 09 15 : 29 $ Start Pressure ("Hg) $7 : 20 \cdot 0 $ Canister ID $33 : 96 $ End Pressure ("Hg) $-5 \cdot 5 $ Flow controller ID $K - 225 $ End pressure > "zero"? $NES $ Tubing type used $ford - gradeSampling duration (intended)NA ccVolume purgedNA cc @NA min1 to 3 volumes purged @ < 200cc/min?$ | Sample ID | 0A-5 | | | | |
| End Date/Time 3180318041529 Start Pressure ("Hg) 730.0 Canister ID 3394 End Pressure ("Hg) -5.5 Flow controller ID $K-225$ End pressure > "zero"? $y.s.$ Tubing type used $ford$ - grade $Sampling$ duration (intended) $Shows$ Volume purged NA cc @ NA min1 to 3 volumes purged @ < 200cc/min? | Start Date/Time | 3/18/04 7:29 | | Vacuum gauge | "zero" ("Hg) | -29,1 |
| Canister ID 33.94 End Pressure ("Hg) -5.5 Flow controller ID K - $\lambda \lambda 5$ End pressure > "zero"? $M \lambda 5$ Tubing type used $\int c d g rade Sampling duration (intended) S hows Volume purged NA_cc@ NA_min 1 to 3 volumes purged @ < 200cc/min?$ | End Date/Time | 3/18/08 15:29 | | Start Pressure ("Hg)7 | | 730.0 |
| Flow controller ID K-225 End pressure > "zero"? MS Tubing type used $\int cod$ $grade$ $Sampling duration (intended)$ $Shows$ Tubing type used $\int cod$ $grade$ NA cc NA cc Volume purged NA cc NA min 1 to 3 volumes purged @ < 200cc/min? | Canister ID | 32.96 | | End Pressure (" | 'Hg) | - 5.5 |
| Tubing type used food grade Sampling duration (intended) Shows Tubing type used food grade NA cc@ $I.5'$ cm Tubing volume NA cc Volume purged NA cc@ NA min 1 to 3 volumes purged @ < 200cc/min? | Flow controller ID | K - 225 | | End pressure > 1 | "zero"? | Nes |
| Tubing type used food grade Hillion Length of tubing 1.5' on Tubing volume NA cc Volume purged NA cc @ NA min 1 to 3 volumes purged @ < 200cc/min? | | | | Sampling duration | on (intended) | Show |
| Volume purged NA cc@ NA min 1 to 3 volumes purged @ < 200cc/min? | Tubing type used | food grade | 1 61 | | | -0-22-13 |
| NH min 1 to 3 volumes purged @ < 200cc/min? NA Weather Conditions at Start of Sampling: Air temperature (°F) 27.0° Rainfall NA Wind direction ESE Barometric pressure 30.41 Relative humidity 631. Wind speed (mph) 0.2 Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs: Imputative Vore Cupmore 16° during Nampling Air grad Value Vore Cupmore 16° during Nampling Magnet Value begins Add appore 144 and 240 | ل Volume purged | NIA A A A A A A A A A A A A A A A A A A | <u><u> </u></u> | çm Tubing | g volume | NA |
| Weather Conditions at Start of Sampling: Air temperature (°F) 27.0° Barometric pressure 30.41 Relative humidity 631. Wind direction ESE Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs: Yumptrature VDX Air temperature VDX Relative humidity 631. Wind speed (mph) 9.2 Yumptrature VDX Yumptrature VDX Air the past 24 to 48 hrs: | | | <u> </u> | 1 to 3 volumes pu | urged @ < 200c | c/min2 AIA |
| Air temperature (°F) <u>17.0°</u> Rainfall <u>NA</u> Wind direction <u>ESE</u> Barometric pressure <u>30.41</u> Relative humidity <u>631.</u> Wind speed (mph) <u>9.2</u> Bubstantial changes in weather conditions during sampling or over the past 24 to 48 hrs: <u>Fimplicature VDE approx 16° during Nanpling</u> | Weather Conditions at | t Start of Sampling: | | | | <u> </u> |
| Barometric pressure 30.41 Relative humidity 1031. Wind direction ESE substantial changes in weather conditions during sampling or over the past 24 to 48 hrs: <u>Fimplicature VDSC approx 10° during Sampling</u> <u>Mranet vain been at anoppout 10° during</u> | Air temperature (°F) | 27.0° Bainfall | A 1 (| a | | |
| ubstantial changes in weather conditions during sampling or over the past 24 to 48 hrs: <u>Himphature Vore approx 10° during Nanpling</u> <u>Mrant vain beepens</u> at anoppont when | arometric pressure | 30.41 Relative humidity | | Wind d | lirection | ESE |
| Fempliature vose approx 10° during ranpling Mrant vain begins at approx 110° during ranpling | ubstantial changes in | weather conditions during compliance | lo | <u>51</u> . Wind s | peed (mph) | 9.2 |
| strant vain begins at appos when hanpling | tempe | rature vore a mon | ver the past 24 | to 48 hrs: | . – | |
| A ANDRO MANDRO LILLAR | Mant | vain brown ad | <u>0°0</u> | wing ra | inplm | |
| J J 1900 | 1- 1 | wa | proz | 14:00 | | |



Comments:

ATTACHMENT C

Analytical Data and Data Usability Summary Report (CD-ROM)



ATTACHMENT D

Example Letter for Property Owner Submittal



Steven P. Stucker, C.P.G. Lead Engineer

June 5, 2008

Mr. Thomas Kells Advantage Carpets and Taylor Rental 195 West 4th Street Oswego, New York 13126

Re: Sub-slab Soil Vapor, Indoor Air and Ambient Air Sampling, Site # V00481 Oswego (W. Utica Street) Non-Owned Former MGP Site Oswego, New York

Dear Mr. Kells:

Enclosed for your information is a summary of laboratory results from the sub-slab soil vapor, indoor air and outdoor (ambient) air samples collected on March 18, 2008 within and outside of your building located on West 4th Street in Oswego, New York. The sampling activities were conducted by National Grid in cooperation with the New York State Department of Environmental Conservation (DEC) and the New York State Department of Health (DOH) to evaluate the potential for soil vapor intrusion of constituents associated with the former manufactured gas plant (MGP) previously located on the property. Soil vapor is air present between the soil particles. Sampling of soil vapor from locations near your building was conducted in July 2007 and the results indicated that MGP-related constituents were present within the soil vapor, as well as other constituents unrelated to former MGP operations. These results were provided to you in a letter dated October 12, 2007, and prompted this additional phase of sampling. Table 1 provides a summary of the results of the laboratory analysis of the sub-slab soil vapor, indoor air and outdoor air samples; it presents the results for compounds that were detected in one or more of the samples. Included in Attachment 1 is the laboratory analytical report from which Table 1 was prepared.

A total of five (5) samples were collected to evaluate potential soil vapor impacts within your building. The samples included the following:

- A sub-slab soil vapor sample (SS-3) from beneath the floor slab of the Taylor Rental portion of the building;
- An outdoor air sample (OA-3) located near the northeast corner of the Taylor Rental portion of the building;
- A sub-slab soil vapor sample (SS-2) from beneath the floor slab of the Advantage Carpets portion of the building;
- An outdoor air sample (OA-2) located near the northwest corner of the Advantage Carpets portion of the building; and
- An indoor air sample (IA-2) located near SS-2, within the Advantage Carpets portion of the building.

Mr. Kells June 5, 2008 Page 2 of 2

Approximate locations of these samples are shown on Figure 1. Note that the outdoor air samples were collected to help evaluate site-specific background outdoor air concentrations.

Concentrations of various constituents observed in sub-slab soil vapor sample SS-3, collected from beneath the Taylor Rental portion of the building, are relatively low and similar to concentrations of these same constituents in the outdoor air sample associated with this building, indicating that the sub-slab soil vapors do not impact the indoor air within the building. The concentrations of several constituents in sub-slab soil vapor sample SS-2, collected from beneath the Advantage Carpets portion of the building are below the concentrations measured in the indoor air within the building based on the results from sample IA-2. This indicates that the source of the sub-slab soil vapor concentrations is likely the air within the building, i.e., operations and materials within the building. Note that if sub-slab soil vapors were migrating into the building, the resulting concentrations in the building would be expected to be substantially less than those beneath the slab due to attenuation (dilution) as vapor migrates from the subsurface into the building. The only exception to this pattern is for the compounds chloroform and 1,2-dichloroethane, which were detected in the sub-slab soil vapor but not in the indoor air. Neither chloroform or 1,2-dichloroethane are considered as being related to former MGP operations.

For your information we have attached a fact sheet prepared by the DOH (December 2007) entitled "Volatile Organic Compounds (VOCs) in Commonly Used Products". This fact sheet provides insight on sources of constituents typically found in indoor air as a result of the use and storage of various materials at work and at home. In addition, a fact sheet prepared by the DOH (May 2004) entitled "Soil Vapor Intrusion Frequently Asked Questions" is also attached to provide a general understanding of concepts related to soil vapor intrusion.

Based on a review of the data, DEC and DOH concur that sub-slab soil vapors are not impacting indoor air in your building, and that no further evaluation of the potential for impacts from soil vapor is required at this time.

If you have any questions concerning the enclosed data, you may contact Ms. Katherine Comerford of the DOH at 315-477-8566, or Mr. Charles Post of the DEC at 518-402-9662. You are also welcome to contact me at 315-428-5652. I will call you in the next few days to make sure that you have received this information and to answer questions that you may have.

Sincerely,

Steven P. Stucker Environmental Department

Attachments cc: Charlie Post, NYSDEC Katherine Comerford, NYSDOH Cathy Geraci, National Grid

William Holzhauer, Esq., National Grid Bob O'Neill, Brown and Caldwell Jim Marolda, Brown and Caldwell