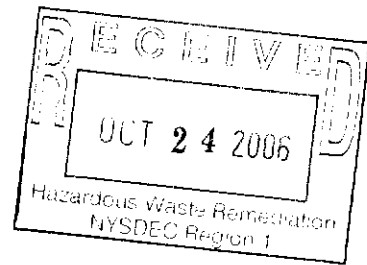


October 23, 2006

OU-2 AIR QUALITY INVESTIGATION REPORT

**Toms Point Property
Manorhaven, New York**



Prepared for

**MBA - MANORHAVEN, LLC
Princeton, New Jersey**

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1.0 INTRODUCTION

On behalf of MBA-Manorhaven, LLC (MBA-Manorhaven), Roux Associates, Inc. (Roux Associates) has prepared this Off Site (Operable Unit 2 [OU-2]) Air Quality Investigation Report (Report) for the Toms Point property located adjacent to the former Thy-pin Steel, Inc. Plant in Manorhaven, New York (MBA Site). The former Thy-pin Steel, Inc. Plant property is referenced as the MBA Site (i.e., OU-1), whereas, the subject area of this investigation is referenced to as the Toms Point property. The investigation objective was to further investigate the air quality within the Toms Point property, which is located south and hydraulically downgradient of the impacted areas at the MBA Site as detailed in Roux Associates' April 26, 2006 Offsite Groundwater Investigation Report. The locations of the MBA Site and the Toms Point property are shown on Figure 1. As part of the April 26, 2006 groundwater investigation shallow soil vapor samples were collected and analyzed from the Toms Point property during November 2005 and February 2006.

As shown in the April 26, 2006 report, the concentrations detected in the soil vapor samples previously collected beneath the Toms Point property were well below the sub-slab soil vapor guidance criteria as provided in the New York State Department of Health (NYSDOH) guidance matrices. Although volatile organic compounds (VOCs) were detected within all soil vapor samples collected, poor correlation was determined between the compounds detected in groundwater and the compounds detected in soil vapor. To further evaluate the potential for vapor intrusion related to the MBA Site compounds (as defined in Section 2.1), Roux Associates proposed collecting one indoor air and one sub-slab sample in each of the eight buildings at the Toms Point property. Roux Associates proposed that the samples would be collected in the lowest level (i.e., basement) of each building, representing a worst-case condition. A work plan detailing these proposed activities was submitted to the New York State Department of Environmental Conservation (NYSDEC) on April 20, 2006. The NYSDEC provided minor comments in their May 19, 2006 comment letter, and Roux Associates submitted a revised work plan, which addressed this comments on June 16, 2006. The NYSDEC approved the revised work plan in their August 1, 2006 comment letter.

1.1 Study Area Location and Description

The MBA Site is approximately 11 acres in size and is located at 5 Sagamore Hill Drive in the Village of Manorhaven, New York. Located to the south of the MBA Site is the Toms Point property (which is within OU-2), and is the focus of this investigation. The Toms Point property is approximately 6 acres in size, and includes eight two-story residential buildings separated with landscaped common and asphalt parking areas. The buildings were built between 1965 and 1966 and vary in area from 5,000 to 14,000 square feet (ft²). The buildings are shown in Figure 2. Buildings 3 and 6 have the smallest area with 5,000 ft², building 5 and 7 are intermediate sized with 9,000 ft², and buildings 1, 2, 4, and 8 are the largest with 14,000 ft². Each of the buildings has a basement that underlies the entire building. The basements of the intermediate sized buildings have one crawl space, the larger sized buildings have two crawl spaces, and the smaller buildings do not have a crawl space. The crawl spaces, when present, underlie approximately one-third of the building and are present beneath only one wing of each intermediate sized building and are present beneath both wings of the larger sized buildings. All of the crawl spaces contain building supports, utility lines, and an uneven concrete floor, which rises approximately four feet above the typical basement floor level. The remaining portions of the basement are partitioned with cinder-block walls and have sheet-rock ceilings.

Each building contains a boiler room, a laundry room, a metering room, one to three stairwells and one to three garbage rooms, depending on the size of the building. The remaining basement partitions are utilized by the residents for storage of miscellaneous personal materials. Each laundry room houses two residential washing and drying machines, a slop sink, and a storage room containing various laundry detergent containers owned by the residents. The boiler room houses a natural gas fueled boiler that provides hot water for the entire building. The garbage rooms are connected to access hatches located in the upper floors by a metal duct, which allows the disposal of garbage from the upper floors to the receptacle present on the basement level. The metering rooms contain the circuit breakers, water piping and meter, and communication lines that provide service for the entire building. All of the utilities enter the room from the ceiling or the upper portions of the walls and are typically sealed with expanding foam.

With the exception of the north property boundary, the Toms Point property is surrounded on the three remaining sides by Manhasset Bay and has a steel sheet-piling bulkhead that was installed

in 1983, which surrounds the majority of the north, east and south bounds of the property (Figure 2). Historic wooden bulkheads were constructed at various times through the development of the property and it is believed that they are still present inland of the existing steel sheet-piling bulkhead (Einsidler, 2006).

The water table is approximately 10 feet below land surface (ft bls) beneath the Toms Point property and the groundwater flow direction is generally to the south along the MBA Site boundary, but there is a change in groundwater flow to the southwest, beneath the Toms Point property. This change in groundwater direction may be due to tidal influence or anomalies related to the presence of the current steel sheet-piling bulkhead or historic seawalls that may be present beneath the Toms Point property (Roux Associates, 2006).

The shallow subsurface is typically composed of disturbed, brown sand strata (i.e. fill material), which is present throughout the MBA Site and the northern portion of the Toms Point property, with a maximum depth of 5 ft bls. The fill materials are unsaturated and are characterized as predominantly fine to coarse sand with trace amounts of asphalt and brick materials. Underlying the fill material is orange/tan sand strata, with a depth of approximately 60 ft bls. The sand strata are characterized by their orange-brown to tan color, fine to coarse grain-size, with varying amounts of silt and gravel. In those areas of the Toms Point property where earlier groundwater sampling was conducted by Roux Associates, the water table appeared to be located near the top of the sand strata at a depth of approximately 10 ft bls, therefore this unit and those below are saturated.

The principal MBA Site contaminants present within the groundwater and soil vapor beneath the MBA Site are CVOCs, with the primary seven compounds of concern being 1,1,1-trichloroethane (TCA), tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethane, and vinyl chloride. The CVOCs are present within the shallow and intermediate zones of the aquifer. The CVOCs were found in lower concentrations and less widespread distribution within the shallow zone beneath the MBA Site, being mostly non-detected at the property boundary with the Toms Point property.

The remaining sections of this Report include the Field Investigation Activities (Section 2.0), Air Quality Analytical Results (Section 3.0), Summary (Section 4.0), and References (Section 5.0).

2.0 FIELD INVESTIGATION ACTIVITIES

The field investigation tasks performed by Roux Associates were conducted from August 21 through August 28, 2006 and were completed in accordance with the June 16, 2006 Work Plan and included: installation of one temporary sub-slab soil vapor sampling point within the meter room of each building's basement, performance of a survey and inventory within the meter room of each building's basement, the collection of one sub-slab soil vapor and one indoor air sample from within the meter room in each building's basement, and the collection of one outdoor ambient air sample. The sub-slab soil vapor samples, SS-1 through SS-8, were collected from buildings 1 through 8, respectively. The indoor air samples, IA-1 through IA-8, were collected from buildings 1 through 8, respectively and the outdoor ambient air sample, AMB-1, was collected adjacent and to the north of building 1. The sampling locations are shown in Figure 2. The investigation activities are summarized below.

2.1 Meter Room Survey, Inventory and Utility Clearance Activities

As indicated in the NYSDOH Draft Guidance, a survey was performed prior to the sampling of each meter room to identify and minimize conditions that may interfere with the proposed testing. The survey evaluated the type of building structure, floor layout, and the physical condition of the buildings. Information obtained from the survey, including information on sources of potential indoor air contamination, were identified on the NYSDOH Indoor Air Quality Questionnaire and Building Inventory Forms (Appendix A). As shown in Appendix A, specific information that was evaluated and noted during the survey includes the following:

1. Superintendent's contact information;
2. Building characteristics (e.g., residential type, number of units, number of floors, building age, etc.);
3. Construction characteristics, including foundation cracks and utility penetrations, ceiling construction and firewall separations, or other openings that may serve as preferential pathways for vapor intrusion;
4. Heating, ventilation, and air conditioning systems, including the type of heating system, type of fuel used, presence of a boiler/furnace, and types of air conditioning;
5. Factors that may influence indoor air quality; and
6. Type of water supply and sewage disposal.

Only a minimal amount of materials (i.e., cardboard boxes containing resident's personal items) were present within a few of the meter rooms prior to the survey. These materials were removed by Toms Point staff a minimum of 72-hours prior to initiating field activities. With the exception of a slight dusty or damp smell associated with the meter rooms, no odors were noted during the sampling activities and no readings were recorded by the portable vapor monitoring equipment readings (e.g., photoionization detector (PID) readings). The only other odors noted in the basement were associated with the laundry detergents stored by the residents within the laundry room. Photographs of each meter room were taken and floor plans were sketched to indicate air sampling locations. The approximate sub-slab soil vapor sampling locations are shown on Figure 2.

A 5/8-inch hole was drilled through the six-inch concrete slab and a vacuum was used to loosen and remove the material within the slab penetration to a depth of two inches below the slab. Upon reaching the target depth, a length of Teflon-lined sample tubing was extended to the bottom of the penetration. The annular space was then backfilled with coarse sand for two inches. Above the sand a cement seal was installed in the annular space between the sample tubing and the slab penetration to secure the sample tubing in place and to seal the penetration through the slab to prevent migration of any potential soil vapor present beneath the slab into the basement. Above the cement a bees wax seal was poured to further prevent the migration of soil vapor. Each building was given an equilibrium period of approximately 48 hours to adjust to any actions taken (i.e., removal of materials) and the disturbance of the sub-slab material, prior to the initiation of sampling activities. A locking door handle was installed in each meter room to prevent access during the sampling activities. A representative of the NYSDEC was present at Toms Point property on August 23, 2006 to observe the set-up and installation of a typical sampling apparatus sub-slab sampling location.

2.2 Collection of Air Quality Samples

As specified in NYSDOH Draft Guidance, to reduce the potential for interference and dilution effects, the building management was requested to refrain from the activities listed below for the 24-hour period prior to and during the air sample collection:

- Opening any windows, openings or vents within the basement;

- Operating any ventilation fans within the basement;
- Smoking in the basement;
- Painting within the basement or common areas;
- Allowing containers of gasoline or oil to remain within the basement;
- Cleaning, waxing or polishing furniture, floors or other woodwork with petroleum or oil-based products within the basement or common areas;
- Engaging in any activities that use materials containing volatile chemicals within the basement or common areas;
- Lawn mowing or paving with asphalt within the common areas;
- Applying pesticides within the common areas; and
- Using building repair or maintenance products such as caulk or roofing tar within the basement or common areas.

The sub-slab soil vapor samples were collected from the sample collection points installed following utility clearance activities. The following procedural steps were followed during sub-slab soil vapor sample collection to minimize any potential for dilution of soil vapor with indoor air:

1. New Teflon-lined tubing was connected to a 'T' connector three-way valve assembly, with one end of the 'T' connector leading to a vacuum pump and the other end leading to a pre-evacuated six-liter summa canister with regulator calibrated to collect a sample over a 24-hour period.
2. The soil vapor sample tubing was then be purged of approximately three volumes of the sample tubing using a vacuum pump set at a rate of approximately 0.2 liters per minute.
3. Following the purging, the pump was turned off, the valve leading to the air purge pump was closed, and the soil vapor was directed to the six-liter summa canister for sample collection. The summa canister regulator restricted the sample collection rate to approximately 4 milliliters per minute (0.004 liters per minute), allowing the sample to be collected over a 24-hour period.

Following sub-slab soil vapor sample collection at each proposed location, the sample tubing was removed, and the penetration was sealed with a quick-drying hydraulic cement.

Indoor and outdoor ambient air samples were collected concurrently with the sub-slab soil vapor sampling. The indoor sampling locations were within three feet of the sub-slab soil vapor sampling point. Each indoor air, outdoor ambient air, and sub-slab vapor sample was collected in a six-liter summa canister over a 24-hour period to enable collection of a daily representative sample. Each air sample was collected using conventional sampling methods and in accordance with the NYSDOH Draft Guidance. The summa canisters were certified clean by the specified laboratory. Each air sample was analyzed for VOCs using United States Environmental Protection Agency (USEPA) Method TO-15. Severn Trent Laboratories, Inc. of Shelton, Connecticut provided all laboratory services, including the sampling containers and regulators. Severn Trent Laboratories, Inc. is an NYSDOH Environmental Laboratory Approved Program (ELAP) certified laboratory.

The field sampling team maintained sample log sheets summarizing the sample identification, date and time of sample collection, identity of samplers, sampling methods and devices utilized, vacuum of canisters before and after samples were collected, and sample analyses. All documentation is provided in Appendix B.

2.3 Data Usability

A Data Usability Report (DUSR) was prepared by Data Validation Services, North Creek, New York. The DUSR includes a data review of the raw data and the quality control parameters. The quality control parameters include custody documentation, holding times, surrogate and matrix spike recoveries, duplicate correlation, calibration standard/blank performance, instrument performance, blank contamination, matrix interference, and method compliance. Additionally, the precision, accuracy and completeness of the data were evaluated. The DUSR is provided in Appendix C. The DUSR was performed in accordance with the USEPA Region II validation standard operating procedures, the USEPA National Functional Guidelines for Data Review, and the NYSDEC DUSR guidelines (revised 1997).

3.0 ANALYTICAL RESULTS

The objective of this investigation was to evaluate the air quality within the Toms Point Property. The initial round of soil vapor samples collected during the November 2005/February 2006 groundwater investigation were collected at eight ft bls and it was shown that there was no real correlation between the compounds detected in groundwater and the compounds detected in soil vapor.

3.1 Data Usability Summary Report

The results of the DUSR indicate that most sample results are usable as reported, or usable with minor edit or qualification as estimated due to processing or matrix effects. No data are rejected. It was observed that the Summa canisters collected from two indoor air samples (IA-2 and IA-8) were no longer under vacuum when the canisters were collected by the field personnel. The canisters were full and contained adequate sample volume as required by the analytical method. Therefore, the sample results are considered representative of actual conditions.

3.2 Soil Vapor, Indoor and Outdoor Ambient Air Analytical Results

Sub-slab soil vapor and indoor air samples were collected for analysis from the meter room of each of the eight basements within the Toms Point property. Concentrations of targeted VOCs (from the TO-15 method) in soil vapor and indoor air were detected at all eight locations, including compounds that were not MBA Site-related CVOCs or their associated breakdown products. The non-CVOCs that were detected within the soil vapor, indoor and outdoor air samples primarily include petroleum-related compounds and refrigerants. The sub-slab soil vapor analytical data is provided in Table 1 and the indoor and outdoor ambient air analytical data is provided in Table 2. The soil vapor sampling forms used in the field are included in Appendix B.

In the May 19, 2006 NYSDEC comment letter it was requested that minimum reporting limits of $0.25 \mu\text{g}/\text{m}^3$ and $1 \mu\text{g}/\text{m}^3$ be utilized when analyzing indoor air samples for TCE and PCE, respectively. The letter also requested that minimum reporting limits of $1 \mu\text{g}/\text{m}^3$ be utilized when analyzing sub-slab soil vapor samples for TCE and PCE. The laboratory that analyzed the air samples as part of this investigation is typically able to achieve these reporting limits for the requested compounds, but was unable to do so for the samples collected during this investigation

due to the required sample dilutions, which resulted from the high levels of petroleum-related compounds. Although mostly not detected in sub-slab and ambient air, CVOCs were detected in all indoor air samples collected during this investigation.

Within the NYSDOH Draft Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Public Comment Draft – February 2005), decision matrices are provided to evaluate the potential for soil vapor intrusion by comparing sub-slab soil vapor concentrations with indoor air concentrations for three compounds, PCE, TCE, and TCA. Therefore, we have focused our evaluation on these three compounds. Depending on the concentrations of both sub-slab soil vapor and indoor air samples, the Draft Guidance gives recommendations to complete no further action, take reasonable and practical actions to identify source(s) and reduce exposures, provide future monitoring of indoor air concentrations or to mitigate the potential exposures to soil vapor.

The concentrations of the above compounds within the sub-slab soil vapor and the indoor air in each meter room are shown below:

	TCA		TCE		PCE	
	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air
Building 1	ND	1.3	ND	0.32	18	2.3
Building 2	ND	ND	ND	ND	12	16
Building 3	ND	ND	ND	0.97	ND	1.8
Building 4	ND	0.23	ND	0.38	ND	1.8
Building 5	ND	0.19	ND	0.19	ND	2.6
Building 6	ND	0.24	ND	0.7	ND	3.1
Building 7	ND	0.51	ND	0.21	7.5	0.81
Building 8	ND	0.16	18	ND	16	2.2

Note : Concentrations of the above compounds are measured in $\mu\text{g}/\text{m}^3$

To further evaluate the indoor air quality in the Toms Point property the concentrations of TCA, TCE and PCE were used in conjunction with the NYSDOH decision matrices. The results of this investigation indicate that either no further action is required or reasonable and practical actions should be taken to identify sources in the buildings within the Toms Point property as shown in the table below:

**Action Required by NYSDOH Matrices and
Associated Compound Which Triggers Action**

	TCA	TCE	PCE
Building 1	NFA	Identify	NFA
Building 2	NFA	NFA	Identify
Building 3	NFA	Identify	NFA
Building 4	NFA	Identify	NFA
Building 5	NFA	NFA	NFA
Building 6	NFA	Identify	Identify
Building 7	NFA	NFA	NFA
Building 8	NFA	NFA	NFA

Definitions as provided by NYSDOH:

NFA – No further Action is required

Identify - Take reasonable and practical actions to identify sources and reduce exposures -
The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential sources and to reduce exposures accordingly (e.g. remove VOC products from areas where residents spend time).

The above evaluation of the soil vapor data utilizing the NYSDOH guidance matrices assumes that where TCE and PCE were not detected in indoor air and soil vapor samples, these compounds were not present, even if the reporting limits were slightly elevated. Typically the reporting limits, although higher than recommended by the NYSDEC, were lower than the NYSDOH guidance matrices' screening values, therefore the data can continue to be evaluated by the above NYSDOH matrices. The only exception was the reporting limits of TCE within the sub-slab soil vapor samples, which ranged from 5.4 to 6.4 $\mu\text{g}/\text{m}^3$. The NYSDOH guidance matrices' screening value for TCE measured in sub-slab soil vapor is 5 $\mu\text{g}/\text{m}^3$. Although, TCE was analyzed with a reporting limit that was slightly greater than the screening value, the elevated reporting limit was at a maximum, 1.4 $\mu\text{g}/\text{m}^3$ greater than NYSDOH guidance matrices' screening value.

In addition to the MBA Site-related CVOCs discussed above, there were also numerous petroleum-related compounds, specifically benzene, toluene, ethylbenzene, and xylene (BTEX), n-hexane, n-heptane, cyclohexane, 4-ethyltoluene, and methyl tert-butyl ether (MTBE), that were detected within the sub-slab soil vapor and indoor air samples. With the exception of **ROUX ASSOCIATES, INC.**

cyclohexane and MTBE all of these petroleum-related compounds were also detected within the outdoor ambient air sample. The petroleum-related compounds do not appear to be related to the MBA Site based on the lack of a transport mechanism (i.e., groundwater flow), as discussed below.

The original MBA Site investigation (Roux Associates, 2001) showed that there were no detections of benzene, ethylbenzene, xylene, and only a few relatively low detections of toluene within the groundwater beneath the MBA Site, upgradient of the Toms Point property. Although these petroleum-related compounds were detected within the sub-slab soil vapor and indoor air within the Toms Point property, there are only a few detections of these compounds within the underlying groundwater beneath the Toms Point property (Table 2), which was sampled during the November 2005/February 2006 groundwater-quality investigation. Ethylbenzene and xylene were not detected within any of the groundwater samples collected from the Toms Point property and the only detection of benzene, was a very low and an estimated concentration of 0.45 µg/l, thirty feet below the water table at water-quality soil boring OSB-3 (Figure 2). Toluene was detected at concentrations higher than the NYSDEC Ambient Water Quality Standards and Guidance Values within the samples collected from water-quality borings OSB-4, OSB-5 and OSB-6. Toluene was not detected within any upgradient groundwater samples collected from water-quality borings OSB-1, OSB-2, and OSB-3 located closest to the MBA Site. Based upon the almost complete lack of BTEX within the upgradient groundwater samples collected within OSB-1, OSB-2, and OSB-3, it appears that the petroleum-related contamination present within the Toms Point property is not connected to groundwater present beneath the MBA Site, located upgradient from the property.

4.0 SUMMARY AND CONCLUSIONS

The objective of this investigation was to characterize the air quality within the Toms Point property. A summary of the investigation tasks performed to complete these objectives and preliminary recommendations are provided below.

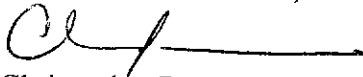
The sub-slab soil vapor samples, SS-1 through SS-8, were collected from buildings 1 through 8, respectively. The indoor air samples, IA-1 through IA-8, were collected from buildings 1 through 8, and the outdoor ambient air sample, AMB-1, was collected adjacent and to the north of building 1. In addition, indoor air surveys were completed within the meter room of each basement where the samples were collected.

Concentrations of VOCs in soil vapor and indoor air were detected at all eight sampling locations, including compounds that were not MBA Site-related CVOCs or their associated breakdown products. The non-CVOCs that were detected within the soil vapor, indoor and outdoor air samples primarily include petroleum-related compounds and refrigerants. Based upon the lack of a transport mechanism, the petroleum-related compounds detected during this investigation do not appear to be related to the MBA Site.

Based up on the current Draft NYSDOH guidance matrices, the MBA Site-related compounds detected in the indoor air samples are likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample.

Respectfully submitted,

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Tables

Table 1. Summary of Volatile Organic Compounds Detected in Sub-Slab Soil Vapor Samples, Toms Point Property, Manorhaven, New York

Parameter (Concentrations in $\mu\text{g}/\text{m}^3$)	Sample Designation: Sample Date:	SS-1 08/24/06	SS-2 08/24/06	SS-3 08/24/06	SS-4 08/24/06	SS-5 08/24/06	SS-6 08/24/06	SS-7 08/24/06	SS-8 08/24/06
1,1,1-Trichloroethane		6.5 U	6.5 U	8.7 U	5.5 U	6.5 U	6.5 U	5.5 U	6.5 U
1,1,2,2-Tetrachloroethane		8.2 U	8.2 U	11 U	6.9 U	8.2 U	8.2 U	6.9 U	8.2 U
1,1,2-Trichloroethane		6.5 U	6.5 U	8.7 U	5.5 U	6.5 U	6.5 U	5.5 U	6.5 U
1,1-Dichloroethane		4.9 U	4.9 U	6.5 U	4 U	4.9 U	4.9 U	4 U	4.9 U
1,1-Dichloroethene		4.8 U	4.8 U	6.3 U	4 U	4.8 U	4.8 U	4 U	4.8 U
1,2-Dibromoethane		9.2 U	9.2 U	12 U	7.7 U	9.2 U	9.2 U	7.7 U	9.2 U
1,2-Dichloroethane		4.9 U	4.9 U	6.5 U	4 U	4.9 U	4.9 U	4 U	4.9 U
1,2-Dichloroethene (total)		4.8 U	4.8 U	6.3 U	4 U	4.8 U	4.8 U	4 U	4.8 U
1,2-Dichloropropane		5.5 U	5.5 U	7.4 U	4.6 U	5.5 U	5.5 U	4.6 U	5.5 U
1,3,5-Trimethylbenzene		5.9 U	5.9 U	7.9 U	4.9 U	5.9 U	5.9 U	4.9 U	5.9 U
1,3-Butadiene		6.6 U	6.6 U	8.8 U	5.5 U	6.6 U	6.6 U	5.5 U	6.6 U
3-Chloropropene		9.4 U	9.4 U	13 U	7.8 U	9.4 U	9.4 U	7.8 U	9.4 U
4-Ethyltoluene		6.4	6.9	7.9 U	6.4	5.9 U	5.9 U	6.9	6.4
Benzene		3.8 U	3.8 U	5.1 U	3.2 U	3.8 U	3.8 U	3.2 U	3.8 U
Bromodichloromethane		8 U	8 U	11 U	6.7 U	8 U	8 U	6.7 U	8 U
Bromoethene		5.2 U	5.2 U	7 U	4.4 U	5.2 U	5.2 U	4.4 U	5.2 U
Bromoforn		12 U	12 U	17 U	10 U	12 U	12 U	10 U	12 U
Bromomethane		4.7 U	4.7 U	6.2 U	3.9 U	4.7 U	4.7 U	3.9 U	4.7 U
Carbon tetrachloride		7.5 U	7.5 U	10 U	6.3 U	7.5 U	7.5 U	6.3 U	7.5 U
Chloroethane		3.2 U	3.2 U	4.2 U	2.6 U	3.2 U	3.2 U	2.6 U	3.2 U
Chloroform		5.9 U	5.9 U	7.8 U	4.9 U	5.9 U	5.9 U	4.9 U	5.9 U
cis-1,2-Dichloroethene		4.8 U	4.8 U	6.3 U	4 U	4.8 U	4.8 U	4 U	4.8 U
cis-1,3-Dichloropropene		5.4 U	5.4 U	7.3 U	4.5 U	5.4 U	5.4 U	4.5 U	5.4 U
Cyclohexane		9.3	10	11	8.3	7.2	9.6	9.6	14
Dibromochloromethane		10 U	10 U	14 U	8.5 U	10 U	10 U	8.5 U	10 U
Dichlorodifluoromethane		15 U	15 U	20 U	12 U	15 U	15 U	12 U	15 U
Ethylbenzene		17	19	21	17	13	14	18	18
Freon 114		8.4 U	8.4 U	11 U	7 U	8.4 U	8.4 U	7 U	8.4 U
Heptane		4.9 U	8.2	6.6 U	4.5	4.9 U	4.9 U	5.3	8.6
Hexane		490	420	630	330	490	670	630	630
Isooctane		5.6 U	5.6 U	7.5 U	4.7 U	5.6 U	5.6 U	4.7 U	5.6 U
MTBE		11 U	11 U	14 U	9 U	11 U	11 U	9 U	11 U
Tetrachloroethene		18	12	11 U	6.8 U	8.1 U	8.1 U	7.5	16
Toluene		26	34	33	25	20	26	27	34
trans-1,2-Dichloroethene		4.8 U	4.8 U	6.3 U	4 U	4.8 U	4.8 U	4 U	4.8 U
trans-1,3-Dichloropropene		5.4 U	5.4 U	7.3 U	4.5 U	5.4 U	5.4 U	4.5 U	5.4 U
Trichloroethene		6.4 U	6.4 U	8.6 U	5.4 U	6.4 U	6.4 U	5.4 U	6.4 U
Trichlorofluoromethane		6.7 U	6.7 U	9 U	5.6 U	6.7 U	6.7 U	5.6 U	6.7 U
Vinyl chloride		3.1 U	3.1 U	4.1 U	2.6 U	3.1 U	3.1 U	2.6 U	3.1 U
Xylenes (total)		87	96	110	87	69	74	96	96

Notes:

- U - Compound was analyzed for but not detected
- $\mu\text{g}/\text{m}^3$ - Micrograms per cubic meter
- JV - Estimated value based upon data validation
- N - Analysis indicates presence of analyte for which there is presumptive evidence to make a "tentative identification"

Table 2. Summary of Volatile Organic Compounds Detected in Indoor and Outdoor Ambient Air Samples, Toms Point Property, Manorhaven, New York

Parameter (Concentrations in µg/m ³)	Sample Designation: Sample Date:	IA-1 08/24/06	IA-2 08/24/06	IA-3 08/24/06	IA-4 08/24/06	IA-5 08/24/06	IA-6 08/24/06	IA-7 08/24/06	IA-8 08/24/06
1,1,1-Trichloroethane	2.2 U	1.3	0.55 U JV	0.22 U	0.23	0.19	0.24	0.51	0.16 JV
1,1,2,2-Tetrachloroethane	2.7 U	0.21 U	0.69 U JV	0.27 U	0.27 U	0.21 U	0.27 U	0.069 U	0.14 U JV
1,1,2-Trichloroethane	2.2 U	0.16 U	0.55 U JV	0.22 U	0.22 U	0.16 U	0.22 U	0.055 U	0.11 U JV
1,1-Dichloroethane	1.6 U	0.12 U	0.4 U JV	0.16 U	0.16 U	0.12 U	0.16 U	0.04 U	0.081 U JV
1,1-Dichloroethene	1.6 U	0.12 U	0.4 U JV	0.16 U	0.16 U	0.12 U	0.16 U	0.04 U	0.079 U JV
1,2-Dibromoethane	3.1 U	0.23 U	0.77 U JV	0.31 U	0.31 U	0.23 U	0.31 U	0.077 U	0.15 U JV
1,2-Dichloroethane	1.6 U	0.77	0.81 U JV	0.32 U	0.32 U	0.24 U	0.32 U	0.081 U	0.16 U JV
1,2-Dichloroethene (total)	1.6 U	0.12 U	0.4 U JV	0.16 U	0.16 U	0.12 U	0.16 U	0.04 U	0.079 U JV
1,2-Dichloropropane	1.8 U	0.28 U	0.92 U JV	0.37 U	0.37 U	0.28 U	0.37 U	0.092 U	0.18 U JV
1,3,5-Trimethylbenzene	2 U	0.46	2.9 JV	1.4	0.41	0.39	0.25	0.22	0.19 JV
1,3-Butadiene	2.2 U	0.33 U	1.1 U JV	0.55	0.44 U	0.33 U	1.7	0.12	0.22 U JV
3-Chloropropene	3.1 U JV	0.19 U JV	0.63 U JV	0.25 U JV	0.25 U JV	0.19 U JV	0.25 U JV	0.063 U JV	0.13 U JV
4-Ethyltoluene	3	1.3	7.4 N JV	3.7	1.2	1	0.69	0.59	0.54 JV
Benzene	1.6	1.9	3.8 JV	1.7	3	1.5	11	0.99	1.2 JV
Bromodichloromethane	2.7 U	0.2 U	0.67 U JV	0.27 U	0.27 U	0.2 U	0.27 U	0.067 U	0.13 U JV
Bromoethene	1.7 U	0.26 U	0.87 U JV	0.35 U	0.35 U	0.26 U	0.35 U	0.087 U	0.17 U JV
Bromoform	4.1 U	0.31 U	1 U JV	0.41 U	0.41 U	0.31 U	0.41 U	0.1 U	0.21 U JV
Bromomethane	1.6 U	0.58 U	1.9 U JV	0.78 U	0.78 U	0.58 U	0.78 U	0.19 U	0.39 U JV
Carbon tetrachloride	2.5 U	1.1	1.1 JV	1	1	0.94	1	0.88	1 JV
Chloroethane	1.1 U	0.4 U	1.3 U JV	0.53 U	0.53 U	0.4 U	0.53 U	0.13 U	0.26 U JV
Chloroform	2 U	0.43 N JV	1.3 JV	0.41	0.2 U	0.38	0.36	0.34	0.39 JV
cis-1,2-Dichloroethene	1.6 U	0.12 U	0.4 U JV	0.16 U	0.16 U	0.12 U	0.16 U	0.04 U	0.079 U JV
cis-1,3-Dichloropropene	1.8 U	0.14 U	0.45 U JV	0.18 U	0.18 U	0.14 U	0.18 U	0.045 U	0.091 U JV
Cyclohexane	1.4 U	5.2	3 JV	1.4	2.4	0.86	0.86	0.41	0.79 JV
Dibromochloromethane	3.4 U	0.26 U	0.85 U JV	0.34 U	0.34 U	0.26 U	0.34 U	0.085 U	0.17 U JV
Dichlorodifluoromethane	4.9 U	4.6	5.4 JV	4.9	4.5	4.7	4.6	4.7	4.9 JV
Ethylbenzene	61	1.6	6.5 JV	2.4	2.4	1.4	0.87	0.74	0.69 JV
Freon 114	2.8 U	0.21 U	0.7 U JV	0.28 U	0.28 U	0.21 U	0.28 U	0.2	0.2 JV
Heptane	2.3 JV	1.3 JV	9.8 JV	1.3 JV	2.3 JV	0.98 JV	1.7 JV	0.53 JV	0.82 JV
Hexane	4.6 JV	4.6 JV	6 JV	2.2 JV	4.2 JV	1.7 JV	1.7 JV	0.81 JV	3.9 JV
Isooctane	2.2	1.1	2.3 JV	0.93	1.4	0.84	0.7	0.61	0.56 JV
MTBE	3.6 U	0.2	0.36 JV	0.15	0.16	0.15	0.14 U	0.094	0.087 JV
Tetrachloroethene	2.7 U	2.3	16 JV	1.8	1.8	2.6	3.1	0.81	2.2 JV
Toluene	23	10	29 JV	9	11	6	6.8	3.7	4.1 JV
trans-1,2-Dichloroethene	1.6 U	0.12 U	0.4 U JV	0.16 U	0.16 U	0.12 U	0.16 U	0.04 U	0.079 U JV
trans-1,3-Dichloropropene	1.8 U	0.14 U	0.45 U JV	0.18 U	0.18 U	0.14 U	0.18 U	0.045 U	0.091 U JV
Trichloroethene	2.1 U	0.32	0.54 U JV	0.97	0.38	0.19	0.7	0.21	0.11 U JV
Trichlorofluoromethane	2.2 U	2.4	3 JV	2.6	2.3	2.5	2.3	2.1	4.4 JV
Vinyl chloride	1 U	0.15 U	0.51 U JV	0.2 U	0.2 U	0.15 U	0.2 U	0.051 U	0.1 U JV
Xylenes (total)	280	5.6	32 JV	10	9.1	5.2	3	2.8	2.9 JV

Notes:

µg/m³ - Micrograms per cubic meter

U - Compound was analyzed for but not detected

JV - Estimated value based upon data validation

N - Analysis indicates presence of analyte for which there is presumptive evidence to make a "tentative identification"

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:					
		OSB-1 11/14/05 10	OSB-1 11/14/05 20	OSB-1 11/14/05 30	OSB-1 11/14/05 40	OSB-1 11/14/05 50	OSB-1 11/15/05 60
1,1,1-Trichloroethane	5	5 U	5 U	0.65 JH	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	1	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	0.77 J	2.6 J	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	1.6 J	3 J	5 U	5 U
1,2-Dichloroethane	0.6	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	1	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	50	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloroethyl vinyl ether	--	NS	NS	NS	NS	NS	NS
2-Hexanone	50	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	--	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50	2.5 J	3.9 J	2.7 J	10 U	1.7 J	5.1 J
Acrolein	5	NS	NS	NS	NS	NS	NS
Acrylonitrile	5	NS	NS	NS	NS	NS	NS
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	50	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	50	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	--	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	--	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	5 U	17	31	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	50	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U
m+p-xylene	5	NS	NS	NS	NS	NS	NS
Methylene chloride	5	0.69 JB	0.59 JB	0.71 JB	0.69 JB	0.91 JB	0.6 JB
o-Xylene	5	NS	NS	NS	NS	NS	NS
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		Sample Date:		Sample Depth (ft bis):		OSB-1	OSB-1	OSB-1	OSB-1
		OSB-1	OSB-1	OSB-1	OSB-1	OSB-1	OSB-1				
Tetrachloroethene	5	5 U	1.2 J	3.7 J	5 U	5 U	5 U	11/14/05	11/14/05	11/14/05	11/15/05
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	11/14/05	11/14/05	11/14/05	11/15/05
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	11/14/05	11/14/05	11/14/05	11/15/05
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	11/14/05	11/14/05	11/14/05	11/15/05
Trichloroethene	5	1.4 J	660 D	5500 D	710 D	14	13	11/14/05	11/14/05	11/14/05	11/15/05
Vinyl chloride	2	5 U	5 U	2.5 J	1.3 J	5 U	5 U	11/14/05	11/14/05	11/14/05	11/15/05
Xylenes (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	11/14/05	11/14/05	11/14/05	11/15/05

Notes:

- B - Compound was found in the blank and sample
- D - Dilution
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NYSDEC - New York State Department of Environmental Conservation
- AWQSGVs - Ambient Water Quality Standards and Guidance Values
- µg/L - µg/L - Micrograms per liter
- No NYSDEC AWQSGV available
- Bold** - Concentration exceeds NYSDEC AWQSGVs
- NS - Not sampled

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:				OSB-2 Sample Depth (ft bls):	OSB-2 11/15/05	OSB-2 11/15/05	OSB-2 11/15/05	OSB-2 11/15/05	OSB-2 11/16/05
		OSB-2	OSB-2	OSB-2	OSB-2						
		10	20	30	40						
1,1,1-Trichloroethane	5	5 U	5 U	170 D	4.5 J	5 U	5 U	5 U	5 U	5 U	
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
1,1,2-Trichloroethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
1,1-Dichloroethane	5	5 U	5 U	23	21	5 U	5 U	5 U	5 U	5 U	
1,1-Dichloroethene	5	5 U	5 U	40	2.4 J	5 U	5 U	5 U	5 U	5 U	
1,2-Dichloroethane	0.6	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
1,2-Dichloropropane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
2-Butanone	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11	
2-Chloroethyl vinyl ether	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2-Hexanone	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
4-Methyl-2-pentanone	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Acetone	50	10 U	1.8 J	2.9 J	5.5 J	10 U	10 U	10 U	10 U	15	
Acrolein	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Acrylonitrile	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Bromodichloromethane	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Bromoform	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Bromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Carbon disulfide	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Carbon tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Chloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Chloroform	7	5 U	5 U	0.75 J	0.83 J	5 U	5 U	5 U	5 U	5 U	
Chloromethane	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
cis-1,2-Dichloroethene	5	5 U	0.74 J	99	3.4 J	5 U	5 U	5 U	5 U	0.71 J	
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Dibromochloromethane	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
m+p-xylene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Methylene chloride	5	0.85 JB	0.85 JB	0.98 JB	0.97 JB	0.89 JB	0.89 JB	0.89 JB	0.89 JB	0.8 JB	
o-Xylene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		Sample Date:		Sample Depth (ft bls):		OSB-2 11/15/05	OSB-2 11/15/05	OSB-2 11/15/05	OSB-2 11/16/05
		OSB-2	OSB-2	OSB-2	OSB-2	OSB-2	OSB-2				
Tetrachloroethene	5	5 U	3.3 J	110 D	1.1 J	5 U	5 U	5 U	5 U	5 U	1.3 J
Toluene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	5 U	5 U	1.5 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	9.5	230 D	19	5 U	5 U	5 U	5 U	5 U	1.5 J
Vinyl chloride	2	5 U	5 U	5 U	0.94 JM	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Notes:

- B - Compound was found in the blank and sample
- D - Dilution
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NYSDEC - New York State Department of Environmental Conservation
- AWQSGVs - Ambient Water Quality Standards and Guidance Values
- µg/L - µg/L -Micrograms per liter
- No NYSDEC AWQSGV available
- Bold** - Concentration exceeds NYSDEC AWQSGVs
- NS - Not sampled

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		OSB-3		OSB-3		OSB-3	
		Sample Date:	Sample Depth (ft bls):	11/16/05	11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 UJV	1.4 JH	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	1	5 U	5 U	5 U	3.1 JV	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 UJV	3.3 J	5 U	5 U	2.7 J
1,1-Dichloroethene	5	5 U	5 U	5 U	1.4 JV	1.9 J	5 U	5 U	1.4 J
1,2-Dichloroethane	0.6	5 U	5 U	5 U	110 DJV	5 U	5 U	5 U	3.1 JH
1,2-Dichloropropane	1	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
2-Butanone	50	10 U	10 U	10 U	10 UJV	10 U	10 U	1.3 J	1.5 J
2-Chloroethyl vinyl ether	--	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	50	10 U	10 U	10 U	10 UJV	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	--	10 U	10 U	10 U	10 UJV	10 U	10 U	10 U	10 U
Acetone	50	1.5 J	10 U	10 U	2.8 JV	3.2 J	10 U	3.6 J	4.9 J
Acrolein	5	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	5	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	1	5 U	5 U	5 U	0.45 JHV	5 U	5 U	5 U	5 U
Bromodichloromethane	50	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Bromoform	50	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Bromomethane	5	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Carbon disulfide	--	5 UJV	5 UJV	5 UJV	5 UJV	5 UJV	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Chloroform	7	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Chloromethane	--	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	5 U	5 U	48 JV	16	5 U	1 J	7.2
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Dibromochloromethane	50	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
m+p-xylene	5	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	5	5 UV	5 UV	5 UV	5 UJV	5 UV	5 UV	0.68 JB	0.67 JB
o-Xylene	5	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	5	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		OSB-3		OSB-3		OSB-3		
		Sample Date:	Sample Depth (ft bls):	11/16/05	20	11/16/05	30	11/16/05	40	50
Tetrachloroethene	5		5 U	5 U	5 U	2.3 J	5 UJV	5 U	5 U	0.74 J
Toluene	5		5 U	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U
trans-1,2-Dichloroethene	5		5 U	5 U	5 U	5 U	0.76 JV	5 U	5 U	0.53 J
trans-1,3-Dichloropropene	5		5 U	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U
Trichloroethene	5		5 U	2.1 J	290 DJV	630 DJV	34	410 D		
Vinyl chloride	2		5 U	5 U	0.88 J	1.5 JV	5 U	5 U	5 U	5 U
Xylenes (total)	5		5 U	5 U	5 U	5 U	5 UJV	5 U	5 U	5 U

Notes:

- B - Compound was found in the blank and sample
- D - Dilution
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NYSDEC - New York State Department of Environmental Conservation
- AWQSGVs - Ambient Water Quality Standards and Guidance Values
- µg/L - µg/L - Micrograms per liter
- No NYSDEC AWQSGV available
- Bold - Concentration exceeds NYSDEC AWQSGVs
- NS - Not sampled

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		OSB-4		OSB-4		OSB-4	
		Sample Date:		OSB-4		OSB-4		OSB-4	
		Sample Depth (ft bls):		02/15/06	02/15/06	02/14/06	02/14/06	02/14/06	02/14/06
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	5 U	5 U	5 U	5 U	1.3 J	5 U	5 U	5 U
1,2-Dichloropropane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	23
2-Chloroethyl vinyl ether	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acrolein	5	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7	38	36	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	23	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m+p-xylene	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methylene chloride	5	1.5 J	5 U	2.3 JB	5 U	3.2 J	5 U	1.4 JB	4.1 JB
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		Sample Date:		Sample Depth (ft bls):		OSB-4 02/14/06	OSB-4 02/14/06	OSB-4 02/14/06	OSB-4 02/14/06	OSB-4 02/14/06
		OSB-4	OSB-4	OSB-4	OSB-4	OSB-4	OSB-4					
Tetrachloroethene	5	5 U	5 U	5 U	5 U	30	40	50	60	70	OSB-4	OSB-4
Toluene	5	4	7.4	5 U	8.7	5 U	7.2	6.1	11	9.1	OSB-4	OSB-4
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	OSB-4	OSB-4
trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	OSB-4	OSB-4
Trichloroethene	5	5 U	5 U	5 U	11	5 U	17	240	5 U	5 U	OSB-4	OSB-4
Vinyl chloride	2	5 U	5 U	5 U	5 U	5 U	5 U	9.6	5 U	5 U	OSB-4	OSB-4
Xylenes (total)	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	OSB-4	OSB-4

Notes:

- B - Compound was found in the blank and sample
- D - Dilution
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NYSDEC - New York State Department of Environmental Conservation
- AWQSGVs - Ambient Water Quality Standards and Guidance Values
- µg/L - µg/L - Micrograms per liter
- - No NYSDDEC AWQSGV available
- Bold** - Concentration exceeds NYSDDEC AWQSGVs
- NS - Not sampled

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		OSB-5		OSB-5		OSB-5		OSB-5	
		Sample Date:		02/16/06		02/16/06		02/16/06		02/16/06	
		Sample Depth (ft bis):		10	20	30	40	50	60	15	
1,1,1-Trichloroethane	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	1		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5		5 U	5 U	5 U	14	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5		5 U	5 U	5 U	2.3 J	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	1		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	50		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethyl vinyl ether	--		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	--		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acrolein	5		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acrylonitrile	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	50		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	--		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	--		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5		5 U	5 U	5 U	4.2 J	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	50		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m+p-xylene	5		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methylene chloride	5		5 U	1.8 J	1.5 J	1.8 J	2.3 J	3.9 JB	1 J	1 J	1 J
o-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		OSB-5		OSB-5		OSB-5		OSB-5		OSB-5		OSB-6		
		Sample Date:	Sample Depth (ft bls):	OSB-5	OSB-5	OSB-5	OSB-5	OSB-5	OSB-5	OSB-5	OSB-5	OSB-5	OSB-5	OSB-5	OSB-6	OSB-6
Tetrachloroethene	5			5 U	5 U	5 U	2.5 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5			3.3	1 U	1 U	7.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	7.9
trans-1,2-Dichloroethene	5			5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5			5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5			1.4 J	3.3 J	3.3 J	210	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	8.5
Vinyl chloride	2			5 U	5 U	5 U	2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	5			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

- B - Compound was found in the blank and sample
- D - Dilution
- J - Estimated value
- U - Analyte was not detected at or above the reporting limit
- NYSDEC - New York State Department of Environmental Conservation
- AWQSGVs - Ambient Water Quality Standards and Guidance Values
- µg/L - µg/L -Micrograms per liter
- No NYSEDEC AWQSGV available
- Bold** - Concentration exceeds NYSEDEC AWQSGVs
- NS - Not sampled

Table 3. Summary of Volatile Organic Compounds Detected in Groundwater Samples, Tom's Point Property, Manorhaven, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation:		OSB-6		OSB-6		OSB-6		TB
		Sample Date:		OSB-6		OSB-6		OSB-6		
		Sample Depth (ft bis):		OSB-6	OSB-6	OSB-6	OSB-6	OSB-6	OSB-6	
1,1,1-Trichloroethane	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	1	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	0.6	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	1	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	50	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethyl vinyl ether	--	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	--	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	25 U	120 U	500 U	25 U	25 U	25 U	25 U	25 U	25 U
Acrolein	5	25 U	120 U	500 U	25 U	25 U	25 U	25 U	25 U	25 U
Acrylonitrile	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	1 U	5 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	50	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	--	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	--	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	12 J	47 J	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	50	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	1 U	5 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U
m+p-xylene	5	2 U	10 U	40 U	2 U	2 U	2 U	2 U	2 U	2 U
Methylene chloride	5	1.3 JB	25 U	100 U	5 U	1.8 JB	1.7 JB	2.4 JB	2.4 JB	2.4 JB
o-Xylene	5	1 U	5 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	5 U	25 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U



QUADRANGLE LOCATION



SOURCE:
USGS; 1979. Hicksville, New York
7.5 Minute Topographic Quadrangle

Title:

MBA SITE LOCATION MAP

OU-2 AIR QUALITY INVESTIGATION
FORMER THYPIN STEEL FACILITY, MANORHAVEN, NEW YORK

Prepared for:

MBA-MANORHAVEN, LLC
PRINCETON, NEW JERSEY



Compiled by: C.P.	Date: 15SEP06
Prepared by: R.K.	Scale: 1:25000
Project Mgr.: C.P.	Office: NY
File No.: MBA0126802.CDR	Project No.: 77101Y02

FIGURE

1

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LEGEND

- SS/IA-1
 DESIGNATION AND LOCATION OF SUB-SLAB AND INDOOR AIR SAMPLING LOCATIONS
- ▲ AMB-1
 DESIGNATION AND LOCATION OF OUTDOOR AMBIENT AIR SAMPLE
- OSB-1
 COMPLETED WATER QUALITY SAMPLING LOCATION (NOVEMBER 2005 & FEBRUARY 2006)

Title: SOIL VAPOR AND AIR SAMPLING LOCATIONS

FORMER THYPIN STEEL FACILITY, MANORHAVEN, NEW YORK
 OU-2 AIR QUALITY INVESTIGATION

Prepared For: MBA-MANORHAVEN, LLC
 FORMER THYPIN STEEL FACILITY, MANORHAVEN, NY

ROUX
 ROUX ASSOCIATES, INC.
 Environmental Consulting
 & Management

Compiled by: C.P.	Date: 15SEP06	FIGURE 2
Prepared by: R.K.	Scale: AS SHOWN	
Project Mgr: C.P.	Office: NY	
File No: MBA0126801	Project: 77101Y02	

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Appendix A

APPENDIX A

New York State Department of Health
Indoor Air Quality Questionnaire and Building Inventory Form



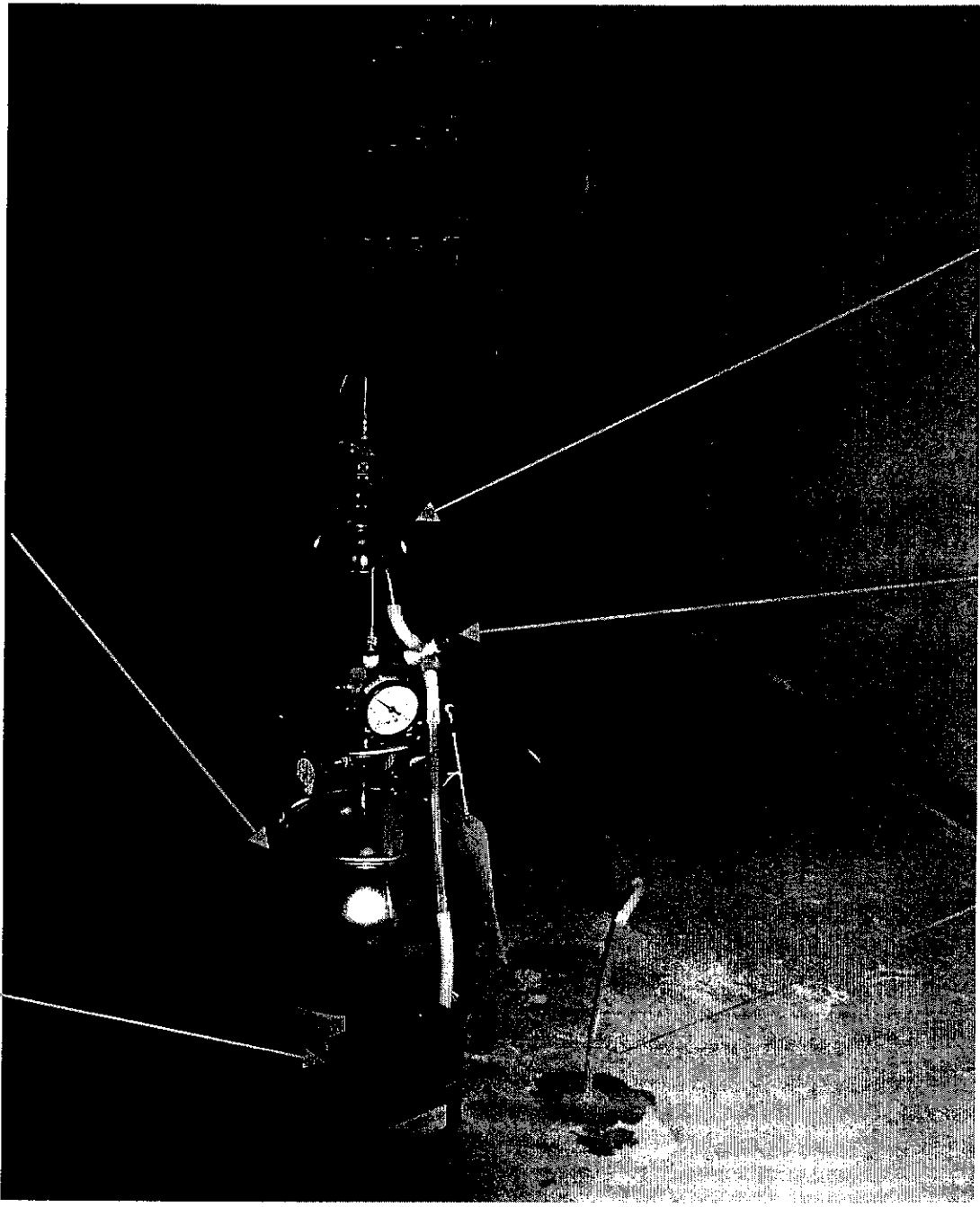
Summa
Canister for
Sub-slab
sample

GilAir
Sampling
pump

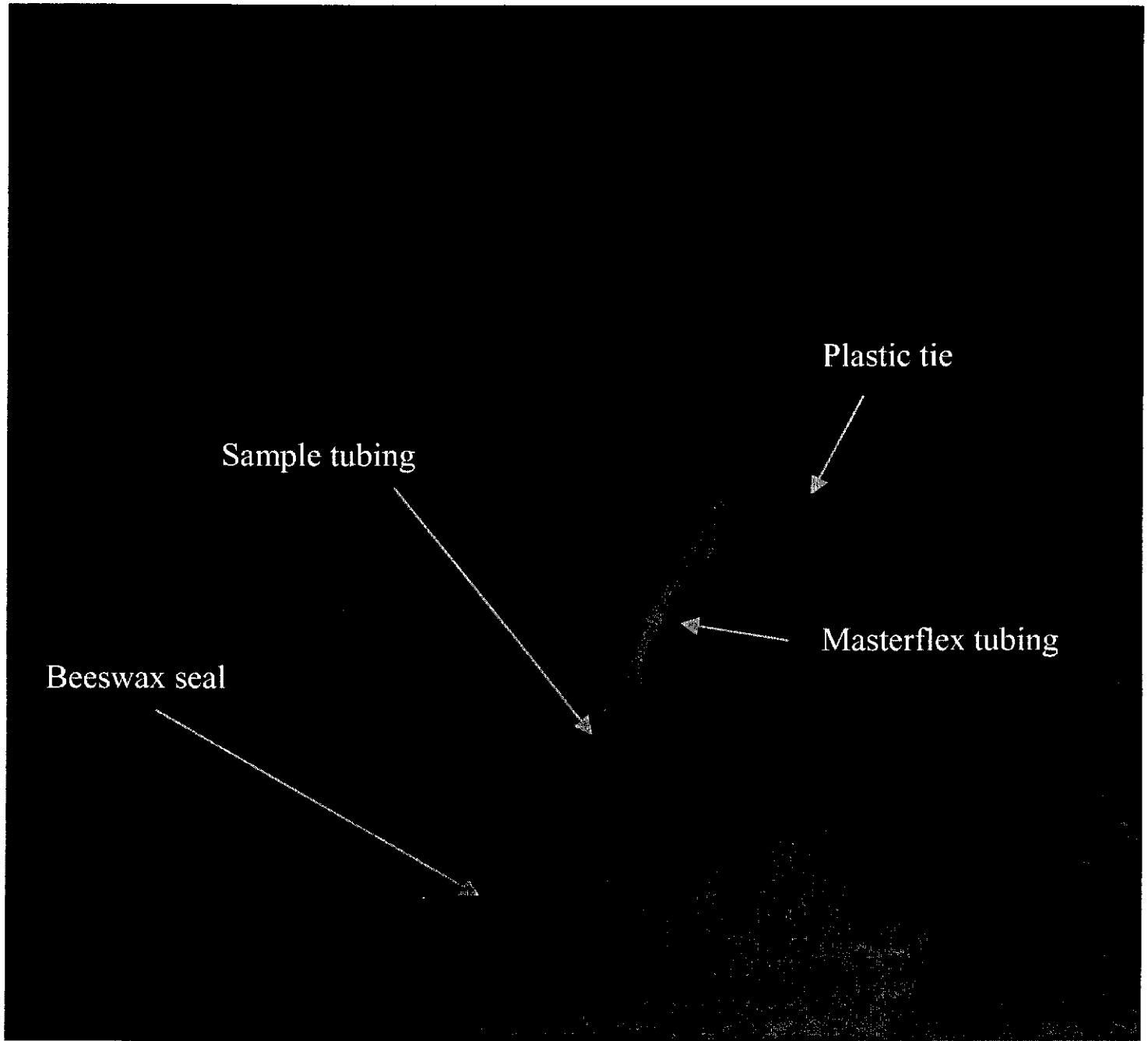
Summa
canister for
Indoor air
sample

Three-way
Valve

Sub-slab
Sample
tubing

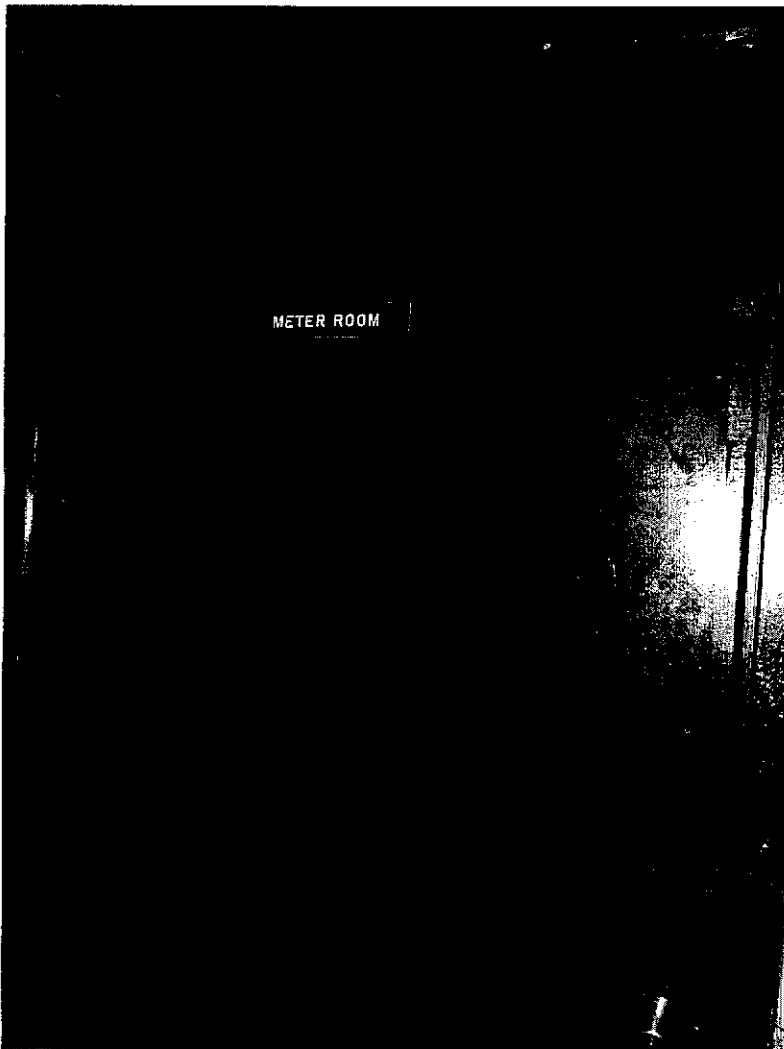
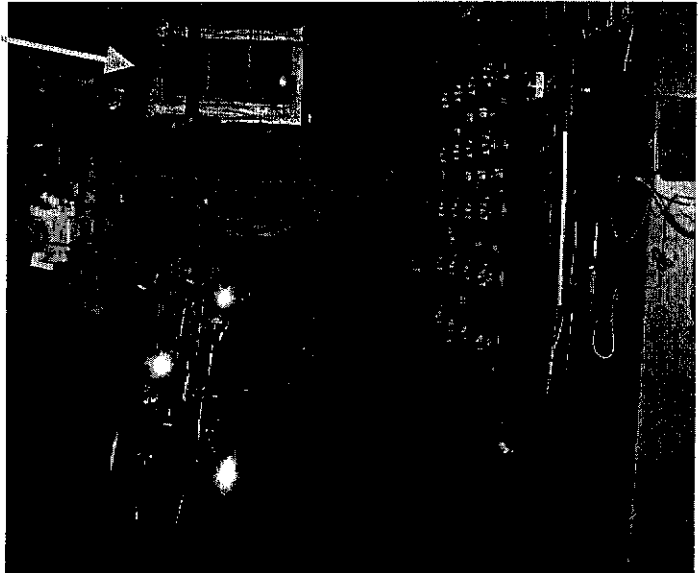


General soil vapor sampling setup



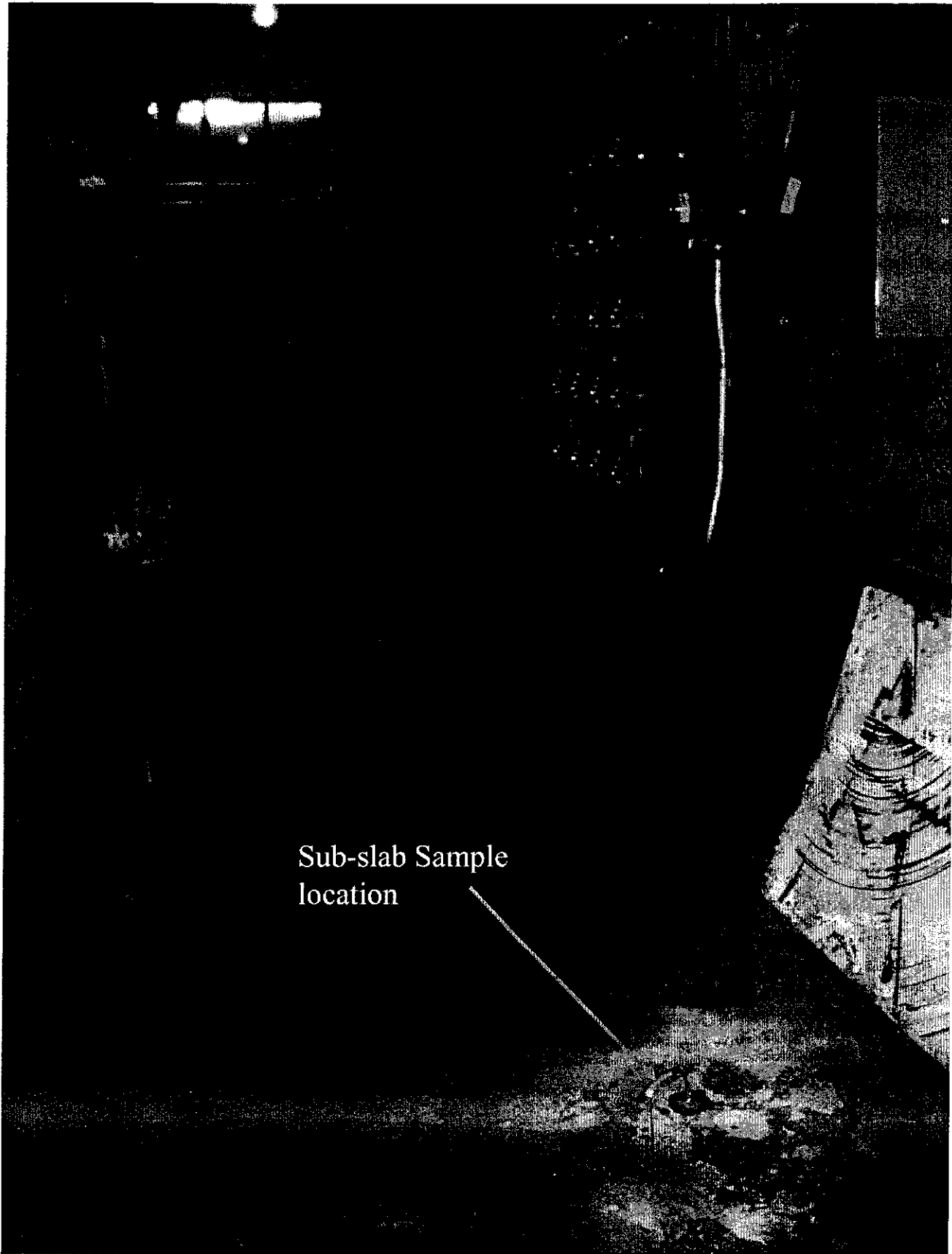
Close-up of soil vapor sampling setup

Window in each room taped.



Door to each room taped and locked following setup of Summa canisters.

ROUX ASSOCIATES, INC.



Sub-slab Sample
location

Meter Room Building 1 showing vapor point

Building #1

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 J. Bispham Date/Time Prepared 8/21/06

Preparer's Affiliation Poux Associates Phone No. (631) 232-2600

Purpose of Investigation To characterize soil vapor and air quality within the building's basement.

1. OCCUPANT:

Interviewed: Y N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

2. OWNER OR LANDLORD: (Check if same as occupant) Building Superintendent

Interviewed: Y N

* Last Name: Pepushi First Name: Joe

Address: 1 Tom's Point Lane

County: Nassau

Home Phone: 516 216 2963 Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

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

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

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

If multiple units, how many? 24

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 2 Building age ^{Built} At 1966

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

4. AIRFLOW

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

Airflow between floors
NA

Airflow near source
NA

Outdoor air infiltration
NA

Infiltration into air ducts
NA

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

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

Basement/Lowest level depth below grade: Approx 8 (feet)

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

Gaps in wall / ceiling where utilities enter meter room.

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 pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

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

Domestic hot water tank fueled by: Gas

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

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Y N

Vents in bathrooms.

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

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

Almost Never

Level

General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	Laundry, Storage, meter and boiler rooms
1 st Floor	Apartments
2 nd Floor	Apartments
3 rd Floor	—
4 th Floor	—

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y/ N

b. Does the garage have a separate heating unit?

Y/N/ NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y/N/ NA

Please specify _____

* d. Has the building ever had a fire?

Y/ N When? _____

e. Is a kerosene or unvented gas space heater present?

Y/ N Where? _____

f. Is there a workshop or hobby/craft area?

Y/ N Where & Type? _____

g. Is there smoking in the building?

Y N How frequently? UTD Frequency

h. Have cleaning products been used recently?

Y/ N When & Type? _____

i. Have cosmetic products been used recently?

Y N When & Type? UTD

UTD - Unable to determine

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? Periodically by Tenants
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? Possibly.
- l. Have air fresheners been used recently? Y / N When & Type? Possibly.
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Possibly
- 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? Beginning of Summer

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

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

If yes, what types of solvents are used? Unable to determine

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

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

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

* Is there a radon mitigation system for the building/structure? Y / N Date of Installation: Super not sure
 Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
 Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

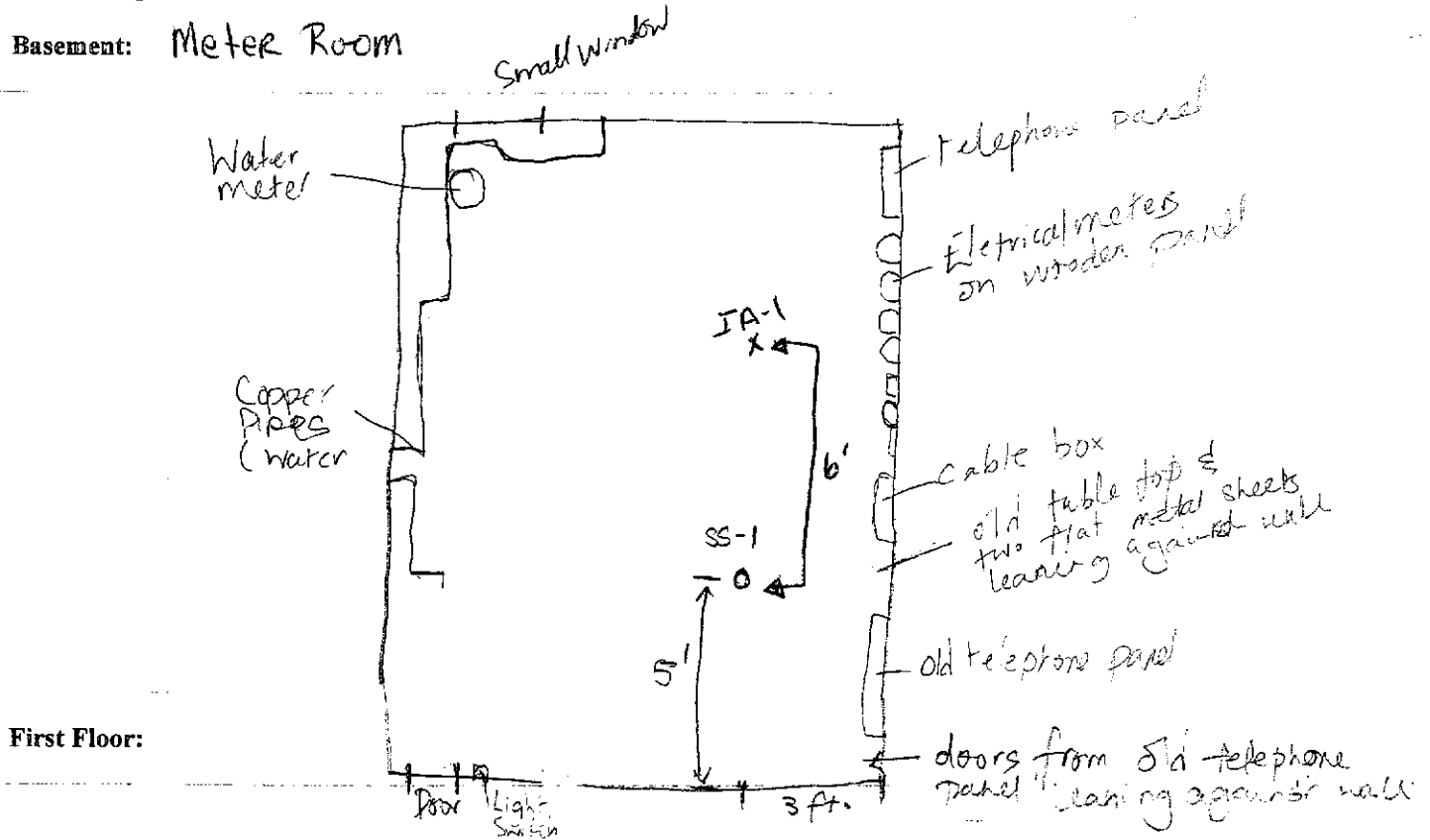
10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: _____
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement: Meter Room



- See attached photo of meter room in building #1

no discernable odors

* Due to high humidity levels in basement (meter room) accurate PID readings could not be measured.

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.

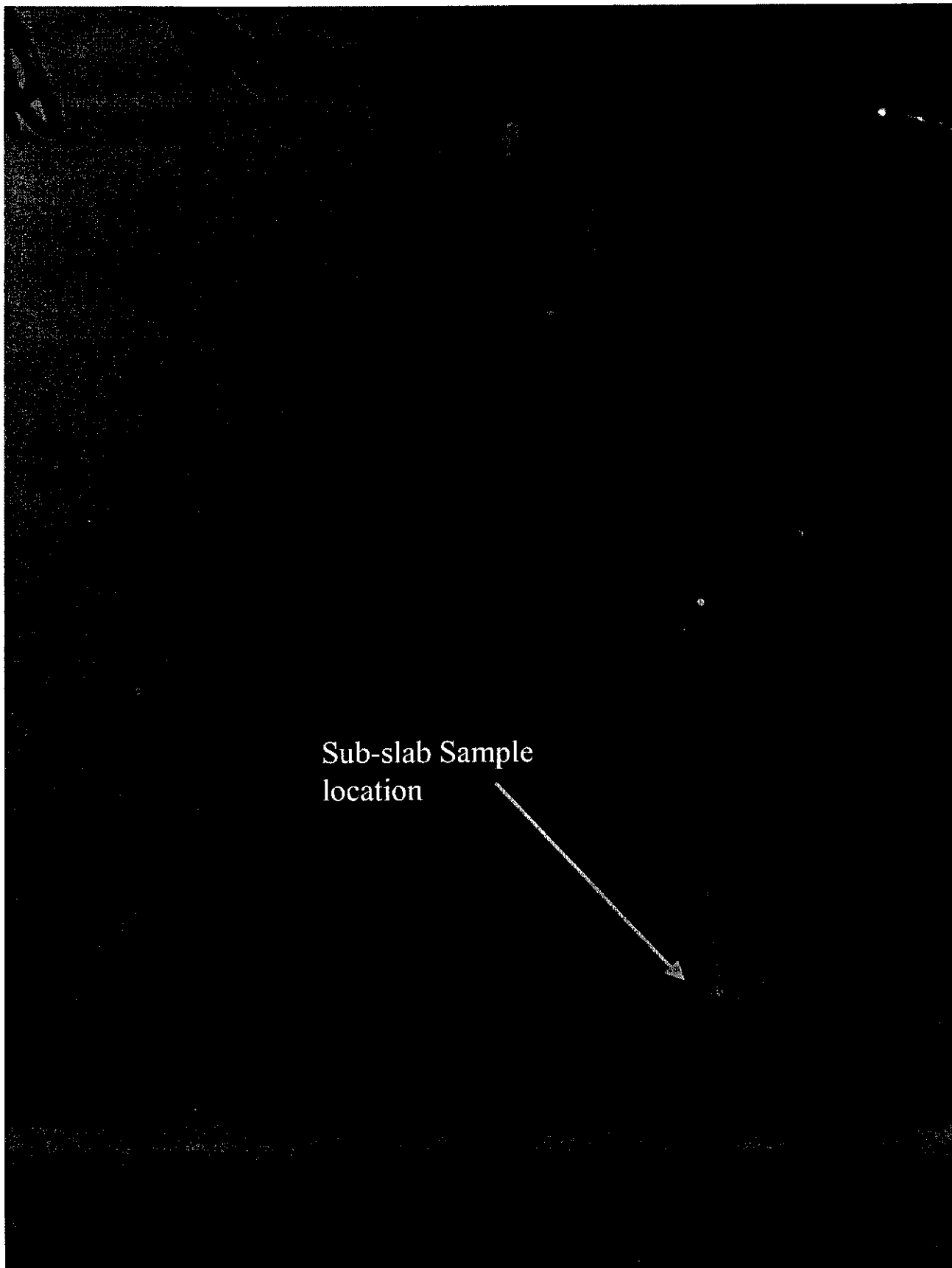
13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

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

Location	Product Description	Size (units)	Condition *	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N

* 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.



Sub-slab Sample
location

Meter Room Building 2

Building # 2

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

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

Preparer's Name T. BISPHAM Date/Time Prepared 8/21/06

Preparer's Affiliation TRUX ASSOCIATES Phone No. (631) 232-2600

Purpose of Investigation To characterize soil vapor below and air quality within the building's basement.

1. OCCUPANT:

Interviewed: Y N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

2. OWNER OR LANDLORD: (Check if same as occupant) Building Superintendent

Interviewed: Y N

* Last Name: Pepushi First Name: Joe

Address: 1 Tom's Point Property

County: Nassau

Home Phone: 516 216 2963 Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

- | | | |
|--|------------------------------|--|
| <input checked="" type="radio"/> Residential | <input type="radio"/> School | <input type="radio"/> Commercial/Multi-use |
| <input type="radio"/> Industrial | <input type="radio"/> Church | Other: _____ |

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

- | | | |
|--------------|-----------------|----------------------------------|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos (3) |
| Modular | Log Home | Other: <u>Co-Op</u> |

If multiple units, how many? 24

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 2 Building age Built 1966.

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

4. AIRFLOW

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

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

NA

Infiltration into air ducts

NA

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

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

Basement/Lowest level depth below grade: Approx. 8 (feet)

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

Gaps in ceiling where utility lines and pipes enter meter room

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 pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

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

Domestic hot water tank fueled by: Gas

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

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Y N

Vents in Bathrooms

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

7. OCCUPANCY

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

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	Laundry, meter room, boiler and storage rooms
1 st Floor	Apartments
2 nd Floor	Apartments
3 rd Floor	_____
4 th Floor	_____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / N
- b. Does the garage have a separate heating unit? Y / N / NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y / N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / N Where? _____
- f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____
- g. Is there smoking in the building? Y / N How frequently? UTD frequency
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y / N When & Type? UTD

UTD - Unable to determine

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? Periodically by tenants
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? Possibly
- l. Have air fresheners been used recently? Y / N When & Type? Possibly
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Possibly
- 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? Beginning of Summer

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

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

If yes, what types of solvents are used? Unable to Determine

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

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

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

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: Super not sure
 Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
 Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

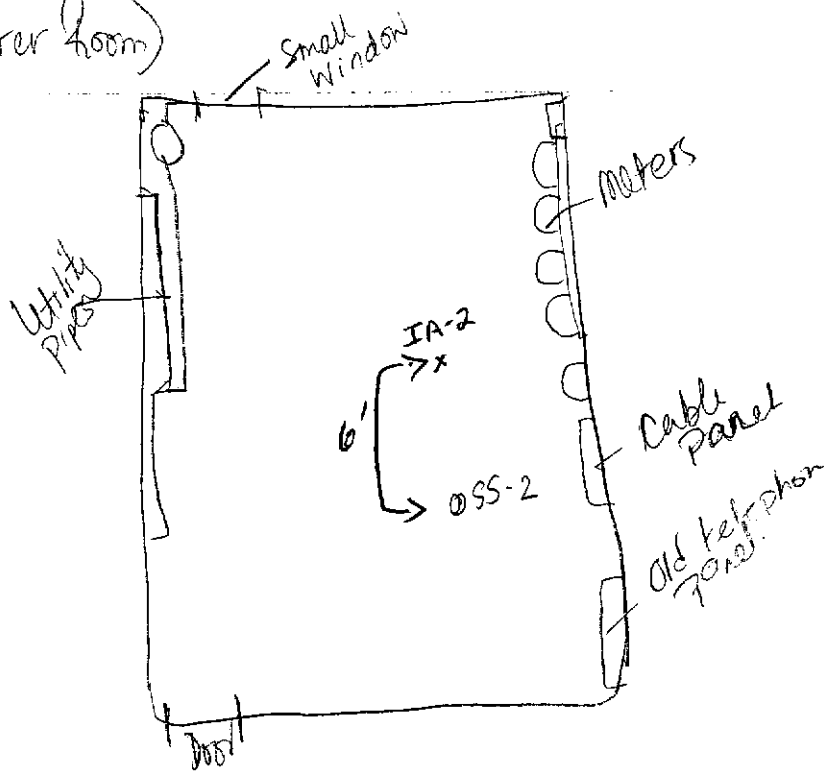
- a. Provide reasons why relocation is recommended: _____
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement:

(Meter Room)



First Floor:

No discernable odors

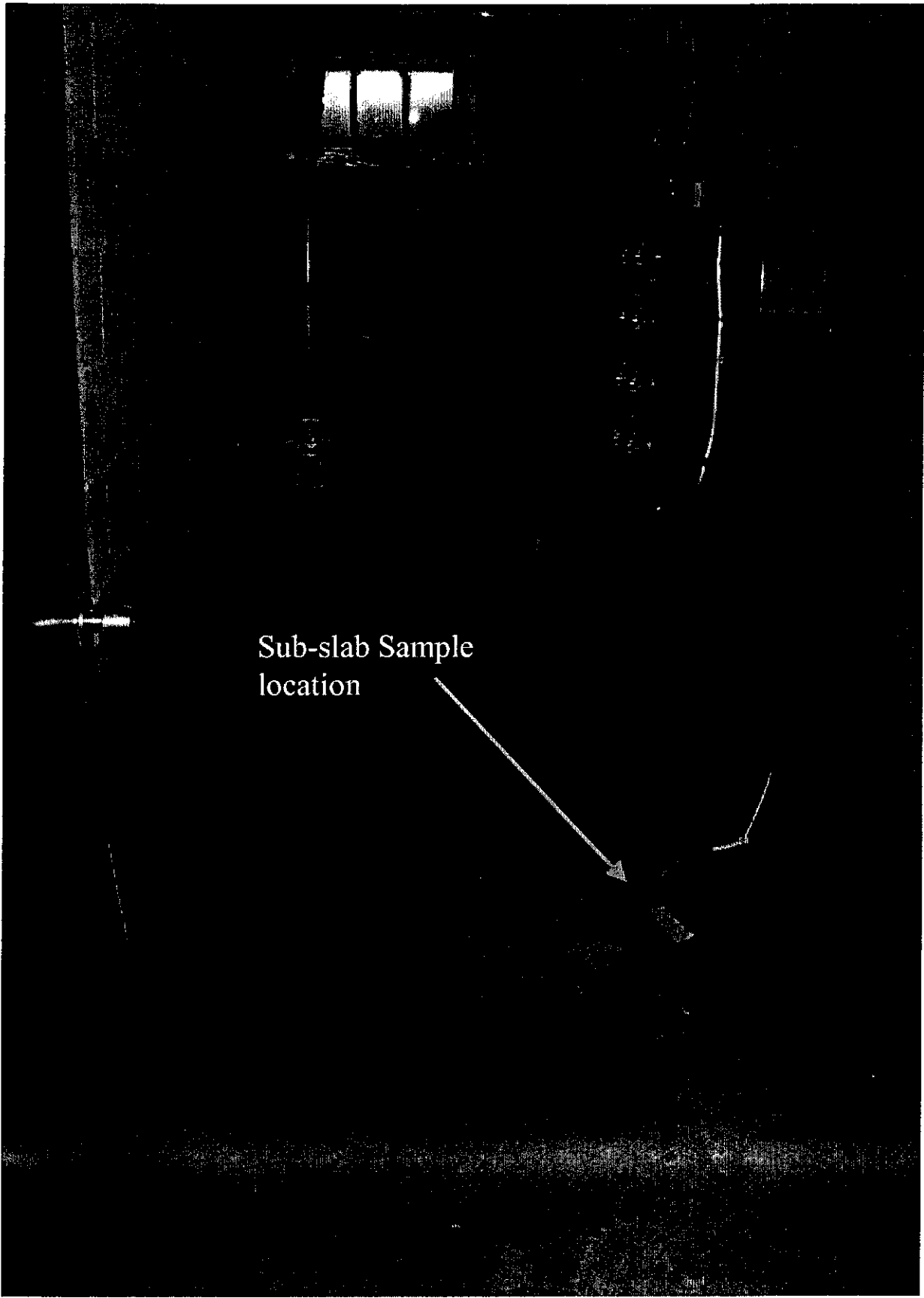
* Due to high humidity levels in basement (meter room) accurate PID readings could not be measured.

- See attached photo of meter room in building #2.

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.



Sub-slab Sample
location

Meter room Building 3

BUILDING #3

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

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

Preparer's Name T. BISPHAM Date/Time Prepared 8/21/06

Preparer's Affiliation ROUX ASSOCIATES Phone No. (631) 232-2600

Purpose of Investigation To characterize soil vapor below and air quality within the building's basement.

1. OCCUPANT:

Interviewed: Y N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

2. OWNER OR LANDLORD: (Check if same as occupant) Building Superintendent

Interviewed: Y N

Last Name: Pepushi First Name: Joe

Address: 1 Tomb Point Lane

County: Nassau

Home Phone: 516 216 2963 Office Phone: _____
Cell

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

- | | | |
|--|------------------------------|--|
| <input checked="" type="radio"/> Residential | <input type="radio"/> School | <input type="radio"/> Commercial/Multi-use |
| <input type="radio"/> Industrial | <input type="radio"/> Church | Other: _____ |

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

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

If multiple units, how many? 8

If the property is commercial, type?

Business Type(s) —

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

Other characteristics:

Number of floors 2

Building age Built 1966

Is the building insulated? Y / N

How air tight? Tight Average / Not Tight

4. AIRFLOW

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

Airflow between floors

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

N/A

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

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

Basement/Lowest level depth below grade appx 8 (feet)

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

breaks in ceiling where utility lines and pipes enter room

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 pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

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

Domestic hot water tank fueled by: Gas

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

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y N

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

Vents in bathrooms

7. OCCUPANCY

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

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	<u>Laundry, storage, meter and boiler rooms</u>
1 st Floor	<u>Apartments ¹³</u>
2 nd Floor	<u>Apartmentsⁿ</u>
3 rd Floor	<u>_____</u>
4 th Floor	<u>_____</u>

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y N
- b. Does the garage have a separate heating unit? Y / N / NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y N When? _____
- e. Is a kerosene or unvented gas space heater present? Y N Where? _____
- f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____
- g. Is there smoking in the building? Y N How frequently? UTD frequency
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y N When & Type? UTD

UTD - Unable to determine

- j. Has painting/staining been done in the last 6 months? Y N Where & When? _____
 - k. Is there new carpet, drapes or other textiles? Y / N Where & When? Possibly
 - l. Have air fresheners been used recently? Y / N When & Type? Possibly
 - m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Possibly
 - 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? Beginning of Summer
- Are there odors in the building? Y N
If yes, please describe: _____

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

If yes, what types of solvents are used? Unable to determine

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

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

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

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: Super not sure
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

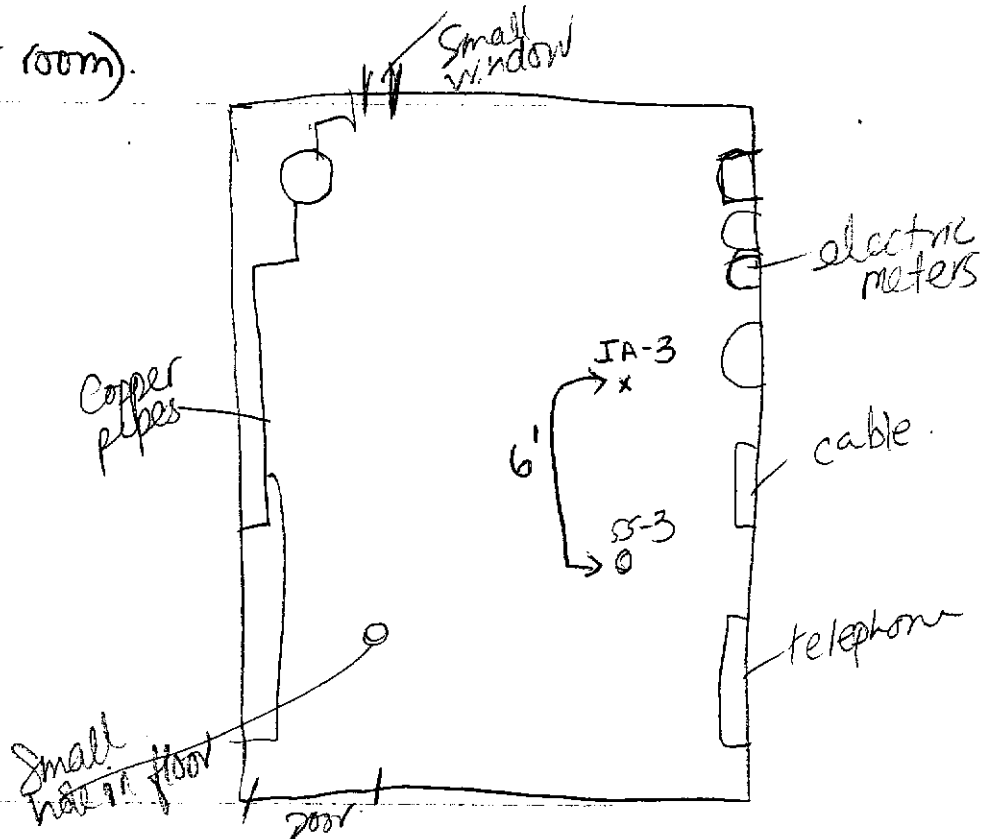
- a. Provide reasons why relocation is recommended: _____
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

II. 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: (meter room).

First Floor:



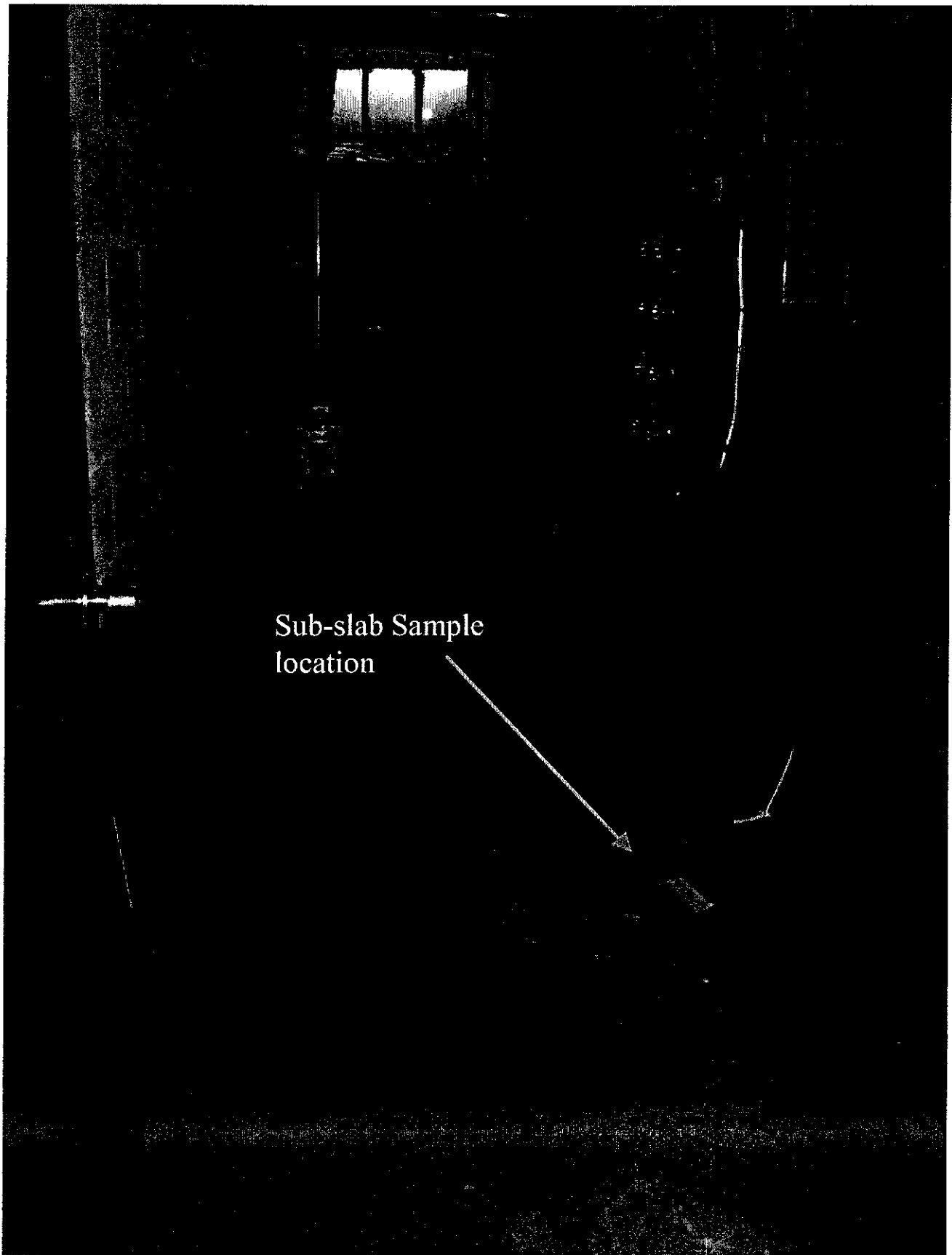
NO discernable odors.

- * Due to high humidity levels in basement (meter room) accurate PID readings could not be measured.
- SEE Attached photo of meter room in building #3

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.



Sub-slab Sample
location

Meter Room in Building 4

Building #4

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 T. Bispham Date/Time Prepared 8/21/06

Preparer's Affiliation Roux Associates Phone No. (631) 232-2600

Purpose of Investigation To characterize soil vapor below and air quality within the building's basement

1. OCCUPANT:

Interviewed: Y N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

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

Interviewed: Y N

Last Name: Papushi First Name: Joe

Address: 1 Tom's Point Lane

County: Nassau

Home Phone: 516 216 2963 Office Phone: _____
Cell

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
 Industrial

School
 Church

Commercial/Multi-use
 Other: _____

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

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

If multiple units, how many? 24

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 2 Building age Built 1966.

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

4. AIRFLOW

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

Airflow between floors

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

NA

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

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

Basement/Lowest level depth below grade: approx. 8 (feet)

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

Craps in walls and ceiling where utility lines and pipes enter room in meter room. Small hole in floor of meter room (approx 1 in in diameter)

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 pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

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

Domestic hot water tank fueled by: Gas

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

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y N

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

Vents in bathrooms

7. OCCUPANCY

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

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement Laundry, storage, meter and boiler rooms.
1st Floor apartments
2nd Floor apartments
3rd Floor —
4th Floor —

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y N
- b. Does the garage have a separate heating unit? Y / N / NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y N When? _____
- e. Is a kerosene or unvented gas space heater present? Y N Where? _____
- f. Is there a workshop or hobby/craft area? Y N Where & Type? _____
- g. Is there smoking in the building? Y N How frequently? UTD
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y N When & Type? UTD

UTD - unable to determine

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? Periodically by tenant
 - k. Is there new carpet, drapes or other textiles? Y / N Where & When? Possibly
 - l. Have air fresheners been used recently? Y / N When & Type? Possibly
 - m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Possibly
 - 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? Beginning of Summer
- Are there odors in the building? Y N
- If yes, please describe: _____

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

If yes, what types of solvents are used? unable to determine

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

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

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

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: Super not sure
 Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
 Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

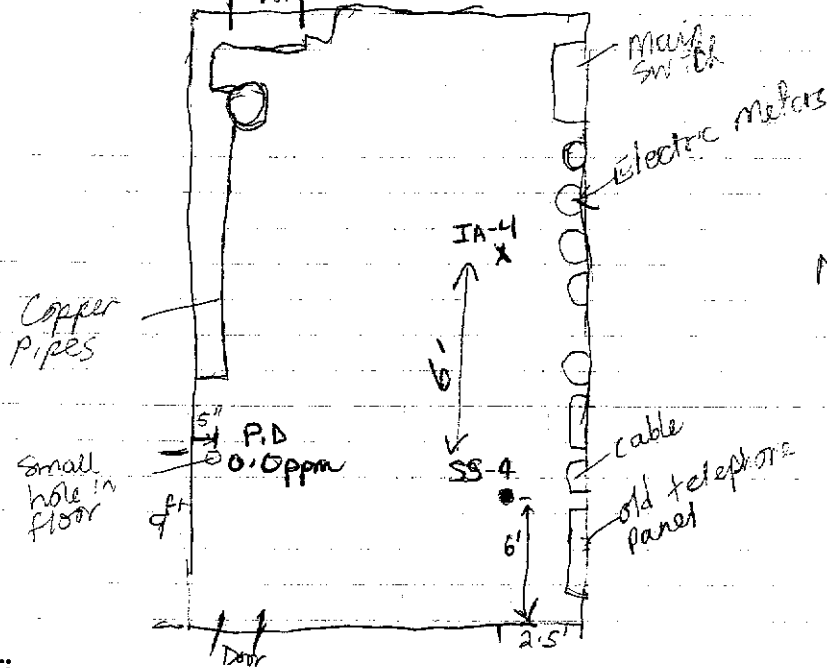
10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: _____
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement: Meter Room window 7ft wide x 2ft high



No Odors
PID readings
0.0ppm

First Floor:

- See Attached photo of meter Room
IN building #4/.

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.

[This area contains a grid for drawing a sketch of the outdoor plot, but it is currently blank.]

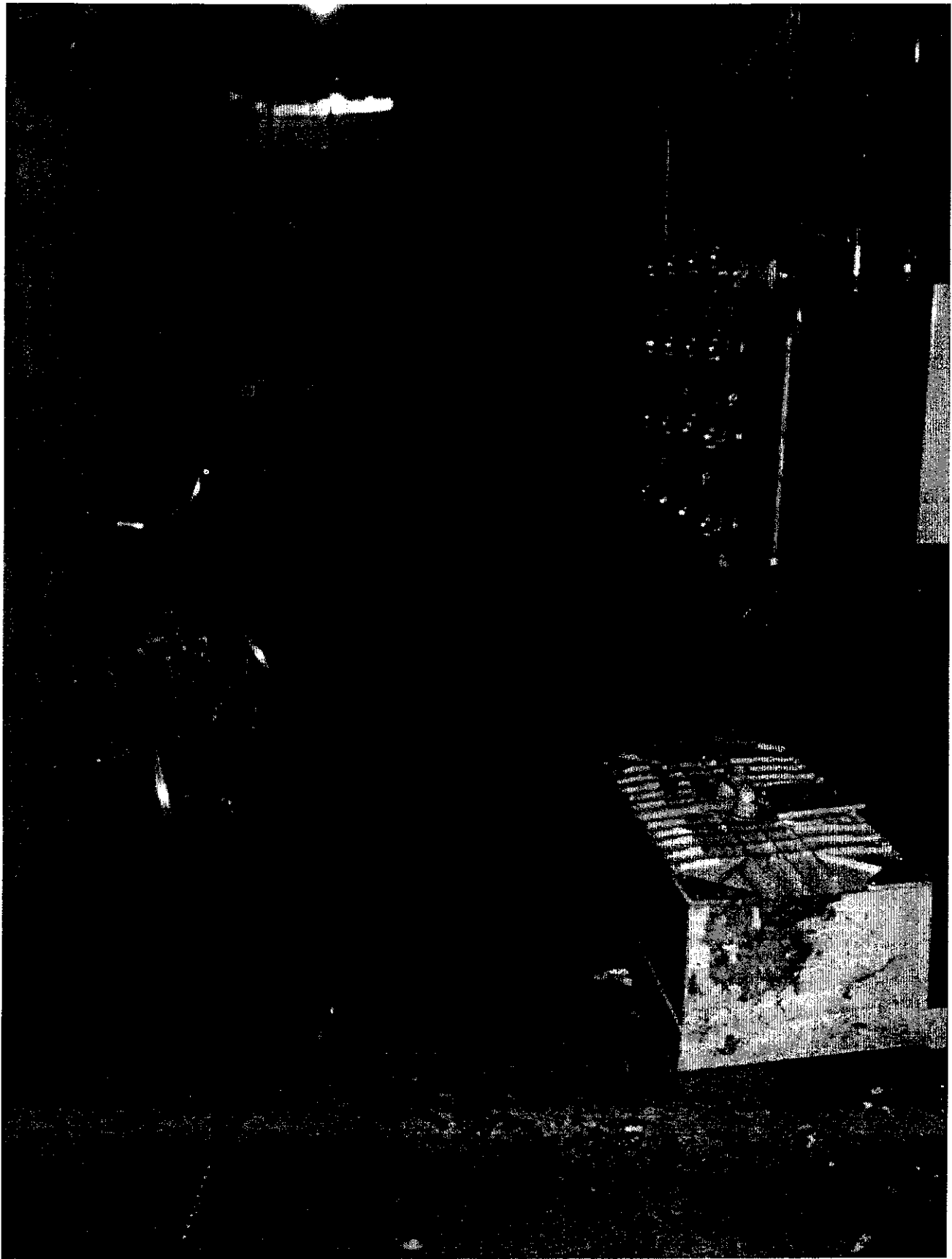
13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** <u>Y/N</u>

* 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.



Meter Room Building 5

ROUX ASSOCIATES, INC.

Building # 5

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 Tracy Bispham Date/Time Prepared 8/21/2006

Preparer's Affiliation Roux Associates Phone No. (631) 232-2600

Purpose of Investigation To characterize soil vapor below and air quality within the building's basement

1. OCCUPANT:

Interviewed: Y N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

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

Interviewed: Y N

Last Name: Pepushi First Name: Joe

Address: 1 Toms Point Lane

County: Nassau

Home Phone: 516 216 2963 Office Phone: _____
Cell _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
 Industrial

School
 Church

Commercial/Multi-use
Other: _____

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

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

* If multiple units, how many? 16

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 2

Building age Built 1960s

Is the building insulated? Y N

How air tight? Tight ~~(Average)~~ Not Tight

4. AIRFLOW

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

Airflow between floors N/A

Airflow near source N/A

Outdoor air infiltration N/A

Infiltration into air ducts N/A

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

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

Basement/Lowest level depth below grade: 0.8 (feet)

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

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 pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

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

Domestic hot water tank fueled by: Gas

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

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Y / N

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

Vents in bathrooms

7. OCCUPANCY

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

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	Laundry, Storage, meter and boiler rooms.
1 st Floor	Apartments
2 nd Floor	Apartments
3 rd Floor	
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / N
- b. Does the garage have a separate heating unit? Y / N / NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y / N When? Not to Super's Knowledge
- e. Is a kerosene or unvented gas space heater present? Y / N Where? _____
- f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____
- g. Is there smoking in the building? Y / N How frequently? UTD
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y / N When & Type? UTD

UTD - unable to determine

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? Periodically by tenants.
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? Possibly
- l. Have air fresheners been used recently? Y / N When & Type? Possibly
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Possibly
- 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? 1 per year, beginning of Summer

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

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

If yes, what types of solvents are used? Unable to determine.

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

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

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

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

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
 Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

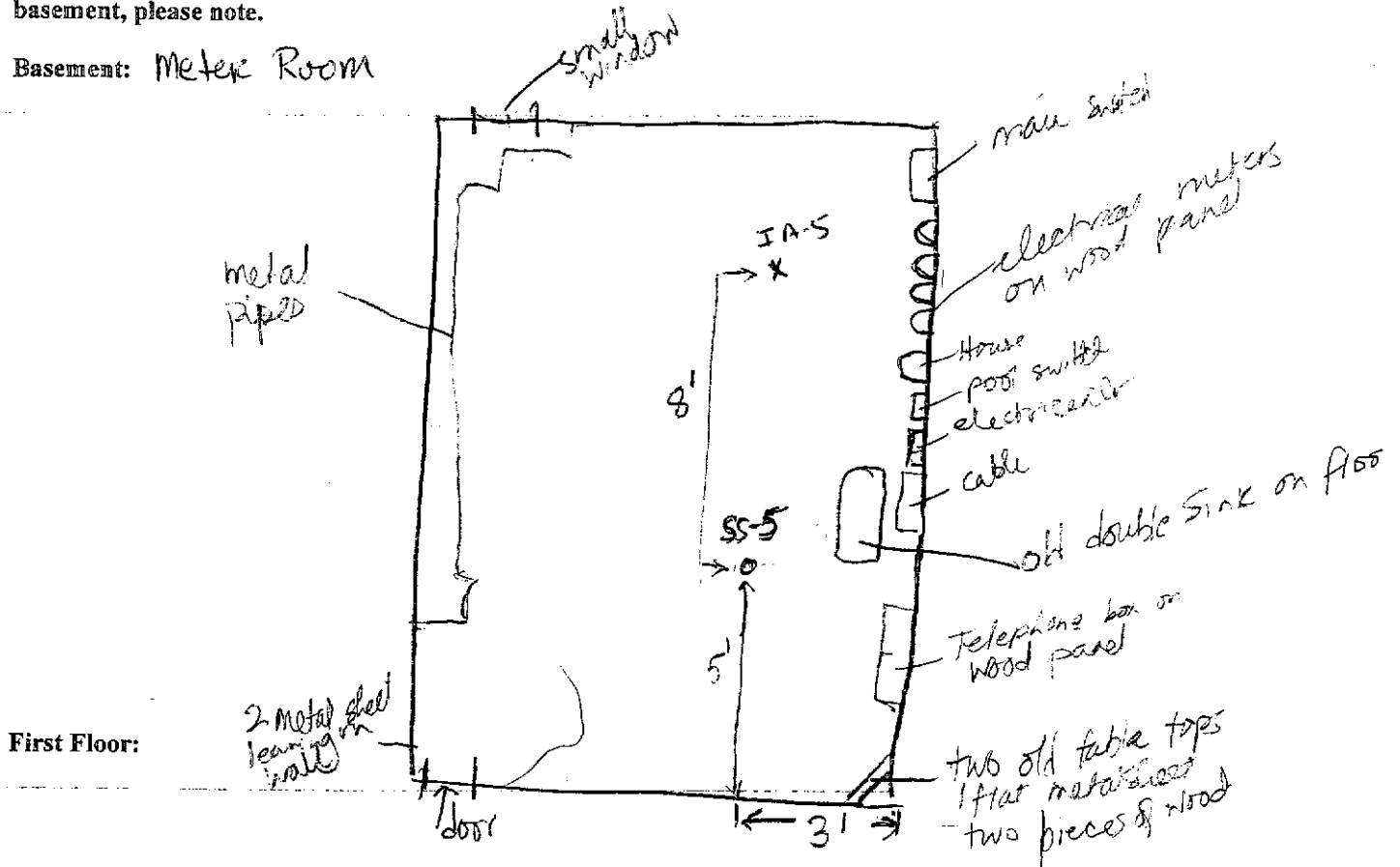
10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: _____
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement: Meter Room



Dusty odor in meter room.

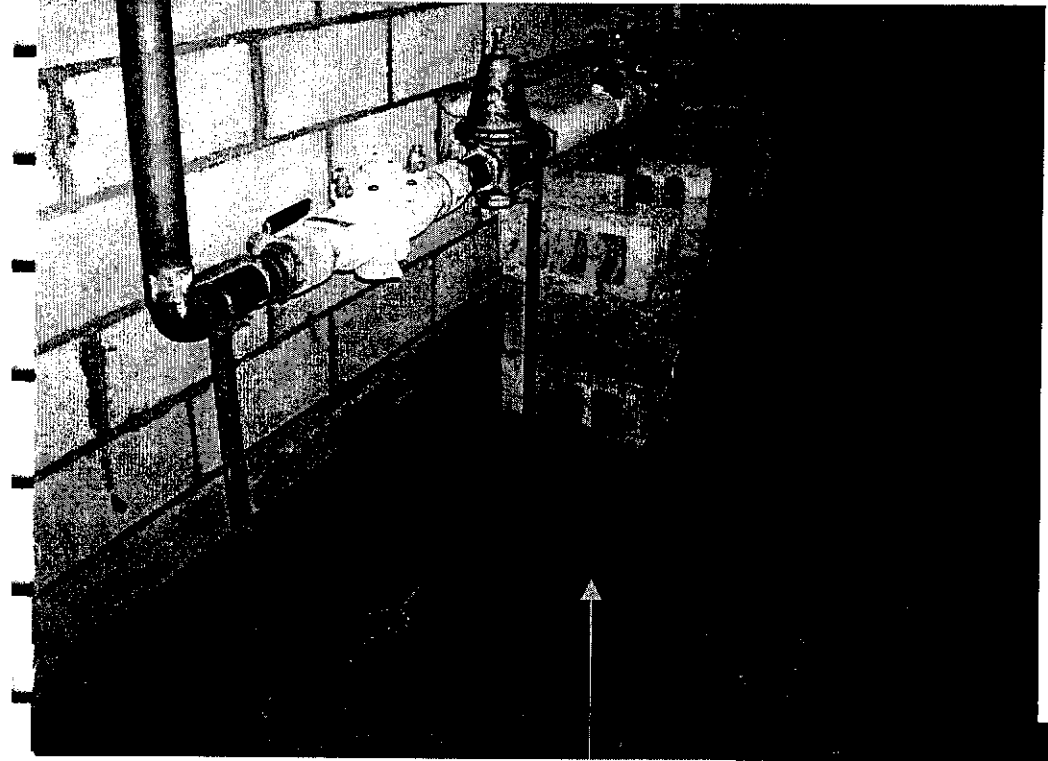
* Due to high humidity levels in basement (meter room) accurate PID readings could not be measured.

- See attached photo of meter room in building #5.

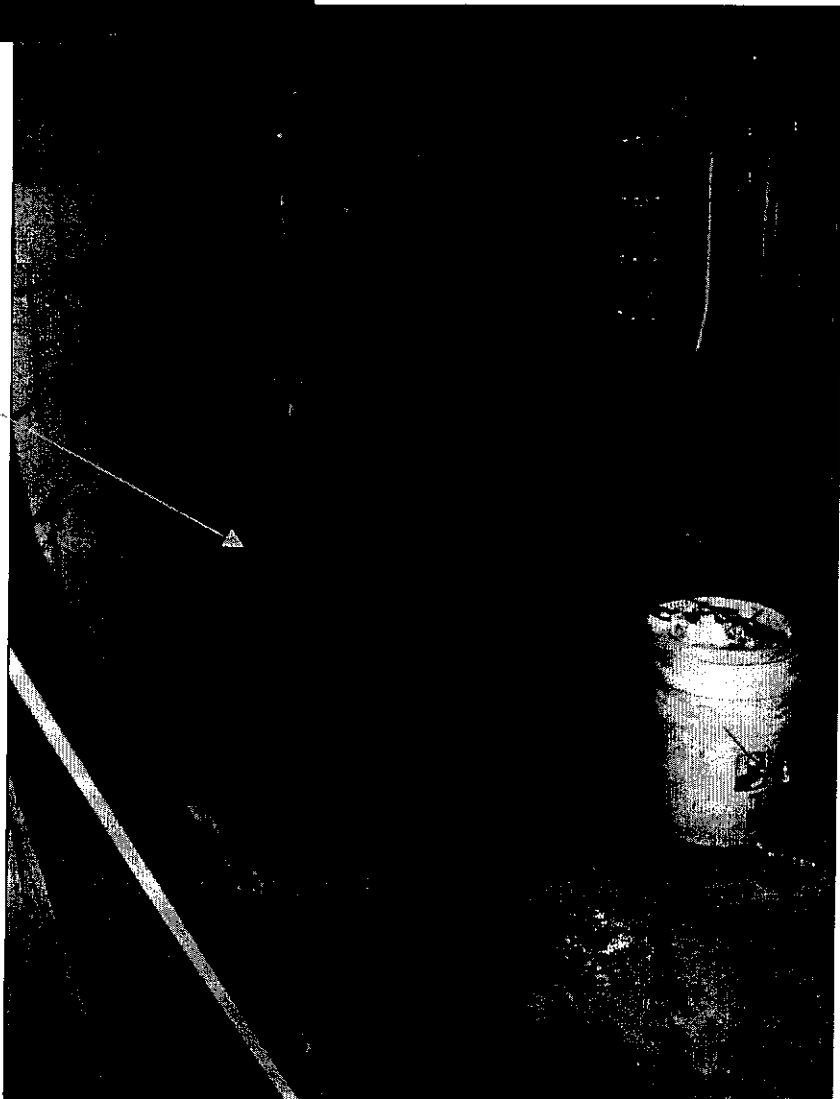
12. OUTDOOR PLOT

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.



Water on the floor of meter room



Meter Room in Building 6

Building #6

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 T. Bepham Date/Time Prepared 8/21/06

Preparer's Affiliation Roux Associates Phone No. (631) 232-2600

Purpose of Investigation To characterize soil vapor below and air quality within the building's basement.

1. OCCUPANT:

Interviewed: Y N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

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

Interviewed: Y N

*Last Name: Pepushi First Name: Joe

Address: 1 Tomp Point Lane

County: Nassau

Home Phone: 516 216 2963 Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

- | | | |
|--|------------------------------|--|
| <input checked="" type="radio"/> Residential | <input type="radio"/> School | <input type="radio"/> Commercial/Multi-use |
| <input type="radio"/> Industrial | <input type="radio"/> Church | Other: _____ |

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

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

If multiple units, how many? 8

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 2

Building age Built 1966

Is the building insulated? Y / N

How air tight? Tight Average / Not Tight

4. AIRFLOW

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

Airflow between floors

_____ N/A _____

Airflow near source

_____ N/A _____

Outdoor air infiltration

_____ N/A _____

Infiltration into air ducts

_____ N/A _____

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 (water in meter room)
- i. The basement is: ~~finished~~ unfinished partially finished
- j. Sump present? Y (N)
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: Approx 8 (feet)

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

Gaps in ceiling/wall where utilities enter meter room.

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 pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

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

Domestic hot water tank fueled by: Gas

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

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Y N

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

Vents in bathrooms.

7. OCCUPANCY

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

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	Laundry, Storage, meter and boiler rooms
1 st Floor	Apartments
2 nd Floor	Apartments
3 rd Floor	—
4 th Floor	—

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y N
- b. Does the garage have a separate heating unit? Y / N / NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y / N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / N Where? _____
- f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____
- g. Is there smoking in the building? Y / N How frequently? UTD frequency
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y / N When & Type? UTD.

UTD - unable to determine

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? Periodically by tenant
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? Possibly
- l. Have air fresheners been used recently? Y / N When & Type? Possibly
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Possibly
- 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? Beginning of Summer

Are there odors in the building? Y / N
 If yes, please describe: Moist and moldy smell in meter room.

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

If yes, what types of solvents are used? Unable to determine

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

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

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

* Is there a radon mitigation system for the building/structure? Y / N Date of Installation: Super not sure
 Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
 Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

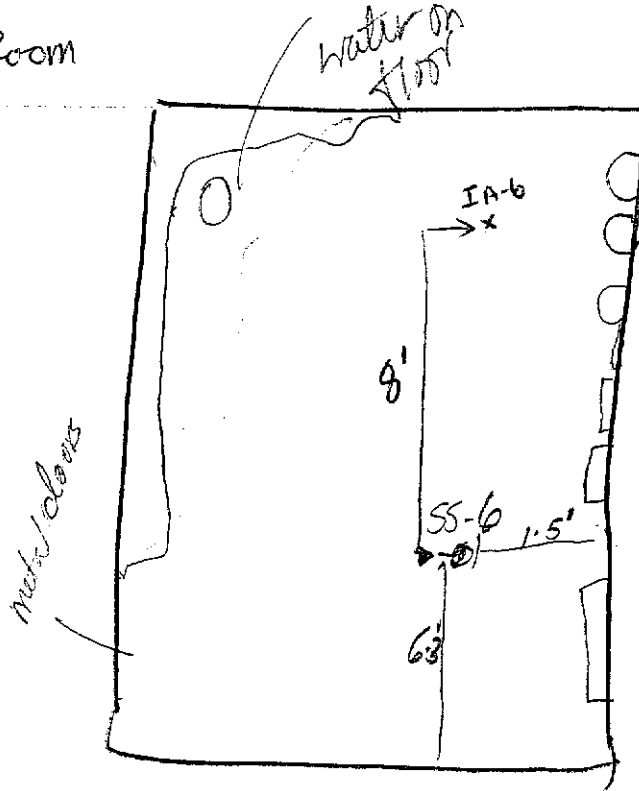
10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: _____
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement: Meter Room



First Floor:

Room moist and muggy smelling

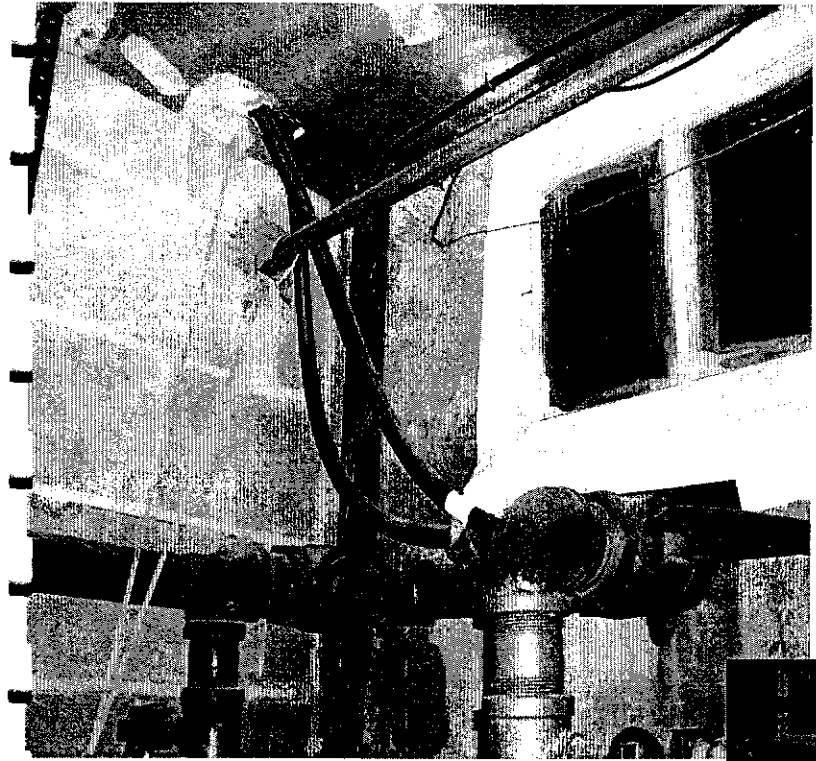
* Due to high humidity levels in basement (meter room) accurate PID readings could not be measured.

- See attached photos of meter room in building #6.

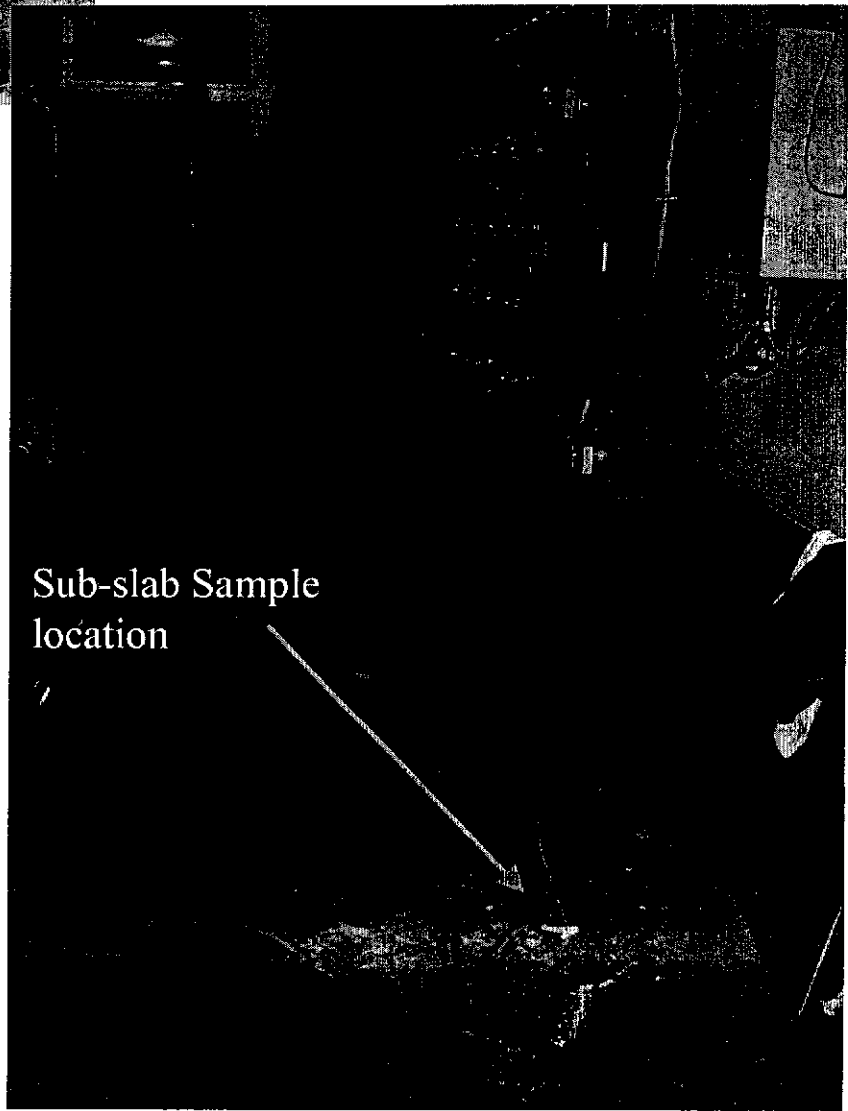
12. OUTDOOR PLOT

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.



- Openings in wall and roof where utilities enter meter room.



Meter Room Building 7

Building 7

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 T. Bispham Date/Time Prepared 8/21/06

Preparer's Affiliation Proux Associates Phone No. (631) 232-2600

Purpose of Investigation To Characterize soil vapor below and air quality within the building's basement.

1. OCCUPANT:

Interviewed: Y N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

2. OWNER OR LANDLORD: (Check if same as occupant) Building Superintendent

Interviewed: Y N

Last Name: Pepushi First Name: Joe

Address: 1 Tom's Point Lane

County: Nassau

Home Phone: 516 216 2963 Office Phone: _____
Cell

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

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

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

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

If multiple units, how many? 14

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 2 Building age Built 1966

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

4. AIRFLOW

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

Airflow between floors
N/A

Airflow near source
N/A

Outdoor air infiltration
NA

Infiltration into air ducts
NA

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

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

Basement/Lowest level depth below grade: Approx. 8 (feet)

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

Holes in ceiling of meter room where utilities enter

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 pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

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

Domestic hot water tank fueled by: Gas

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

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y N

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

7. OCCUPANCY

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

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	Laundry, meter, storage and boiler rooms.
1 st Floor	Apartments
2 nd Floor	Apartments
3 rd Floor	—
4 th Floor	—

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y N
- b. Does the garage have a separate heating unit? Y / N NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y / N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / N Where? _____
- f. Is there a workshop or hobby/craft area? Y N Where & Type? _____
- g. Is there smoking in the building? Y / N How frequently? UTD frequency
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y / N When & Type? UTD

UTD - unable to determine

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? Periodically by tenants
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? Possibly
- l. Have air fresheners been used recently? Y / N When & Type? Possibly
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Possibly
- 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? Beginning of Summer

Are there odors in the building?

Y / N

If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? unable to determine

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

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

Yes, use dry-cleaning regularly (weekly)

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

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: Super not sure
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

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

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

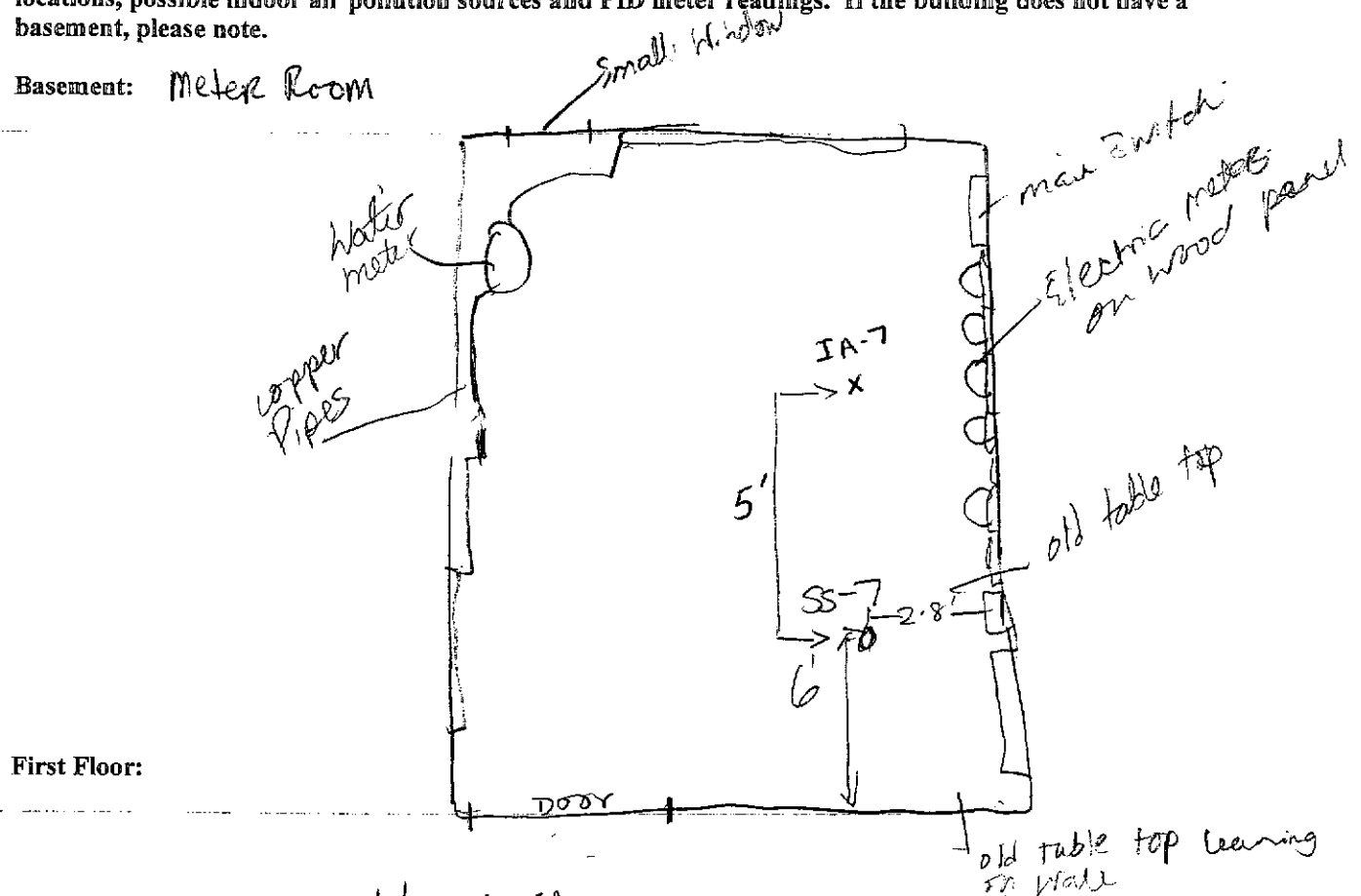
c. Responsibility for costs associated with reimbursement explained? Y / N

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

11. FLOOR PLANS

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

Basement: Meter Room



NO Discernable odors

* Due to high humidity levels in basement (meter room)
Accurate PID Readings could not be measured.

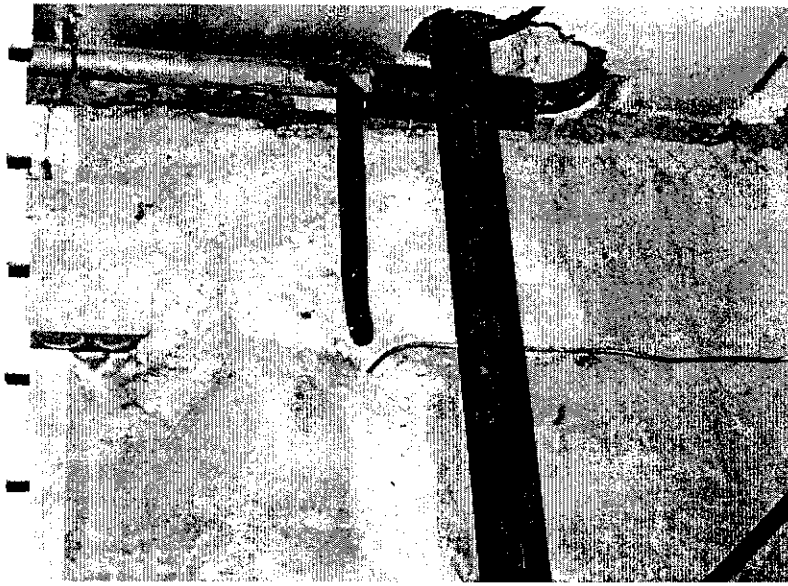
- See attached photos of meter room in building #7

Card board panel on the
roof
- holes in ceiling where
pipes enter.

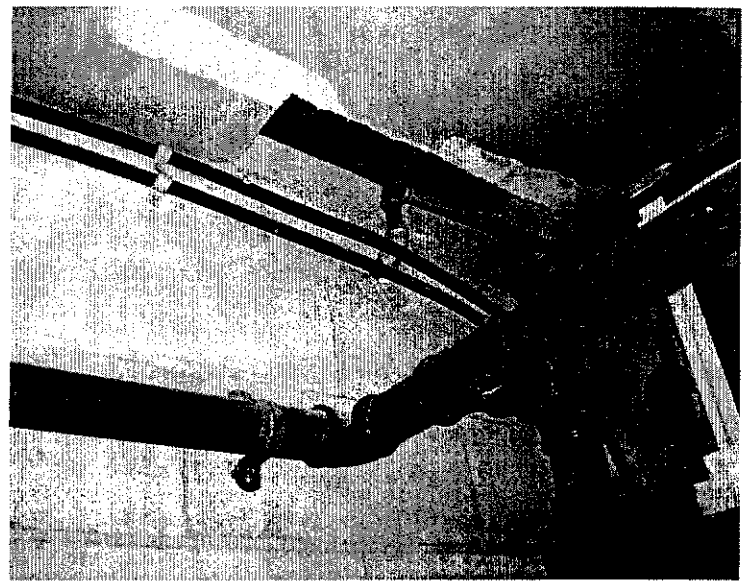
12. OUTDOOR PLOT

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.

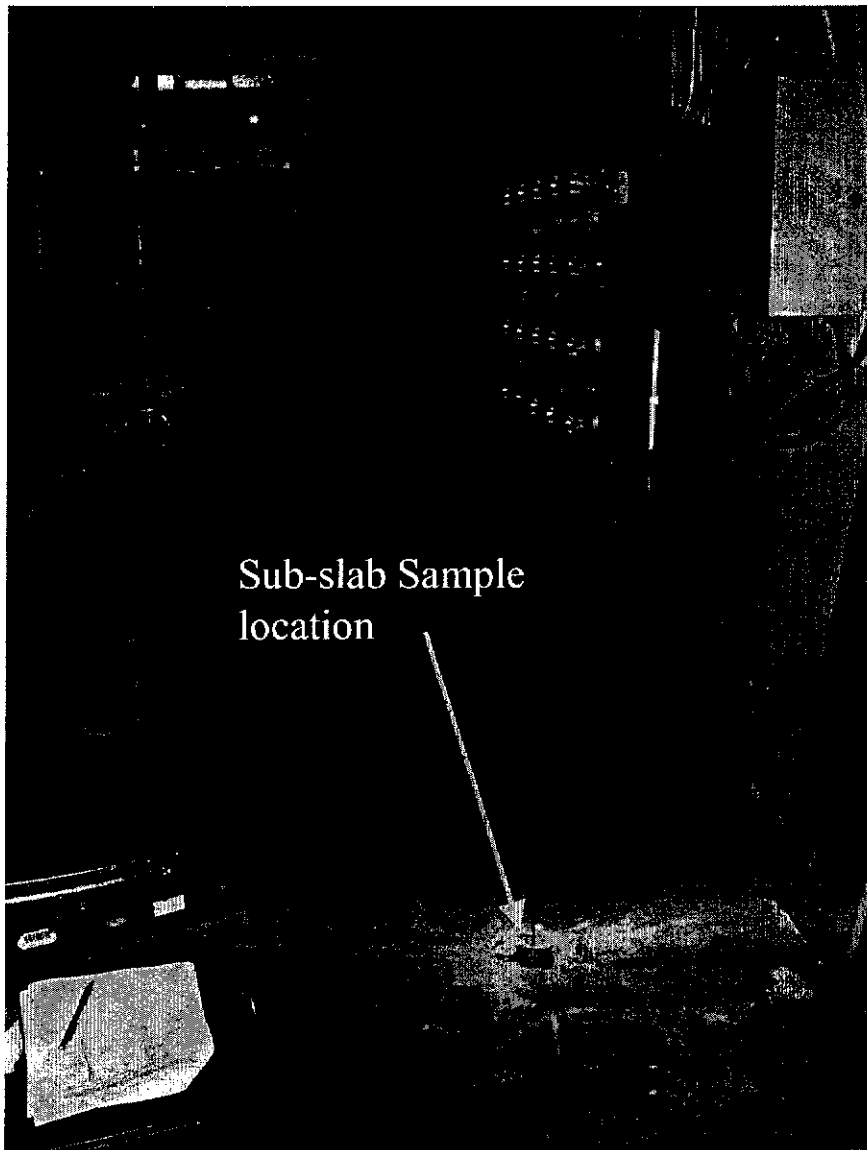
Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



Hole in ceiling where utility lines enter meter room



Holes in ceiling of meter room



Sub-slab Sample location

Meter Room Building 8

Building #8

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 T. Bispham Date/Time Prepared 8/21/2006

Preparer's Affiliation Roux Associates Phone No. (631) 232-2600

Purpose of Investigation To characterize soil vapor below and air quality within the building's basement

1. OCCUPANT:

Interviewed: Y N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

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

Interviewed: Y N

Last Name: Pepushi First Name: Joe

Address: 1 Tom's Point Lane

County: Nassau

Home Phone: 516 216 2963 Office Phone: _____
Cell

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

- | | | |
|--|------------------------------|--|
| <input checked="" type="radio"/> Residential | <input type="radio"/> School | <input type="radio"/> Commercial/Multi-use |
| <input type="radio"/> Industrial | <input type="radio"/> Church | Other: _____ |

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

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

If multiple units, how many? 24

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 2 Building age Built 1966. (40 yrs)

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

4. AIRFLOW

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

Airflow between floors
N/A

Airflow near source
N/A

Outdoor air infiltration
N/A

Infiltration into air ducts
N/A

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 ~~brick~~ stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: ~~finished~~ unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: approx 8 (feet)

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

Three small holes in the floor (approx 1 inch in diameter) gaps in ceiling and walls where utility lines and pipes enter water room. (see page 6)

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 pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

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

Domestic hot water tank fueled by: Gas

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

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y N

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

Vents in bathrooms

7. OCCUPANCY

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

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	<u>Laundry, storage, meter and boiler rooms</u>
1 st Floor	<u>Apartments</u>
2 nd Floor	<u>Apartments</u>
3 rd Floor	<u>—</u>
4 th Floor	<u>—</u>

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / N
- b. Does the garage have a separate heating unit? Y / N / NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y / N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / N Where? _____
- f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____
- g. Is there smoking in the building? Y / N How frequently? UTD frequency
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y / N When & Type? UTD

UTD - unable to determine

- j. Has painting/staining been done in the last 6 months? Y N Where & When? Periodically by tenants
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? Possibly
- l. Have air fresheners been used recently? Y / N When & Type? Possibly
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Possibly
- 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? Beginning of Summer

Are there odors in the building? Y N
 If yes, please describe: Dusty in basement

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

If yes, what types of solvents are used? unable to determine

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

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

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

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: super not sure
 Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

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

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

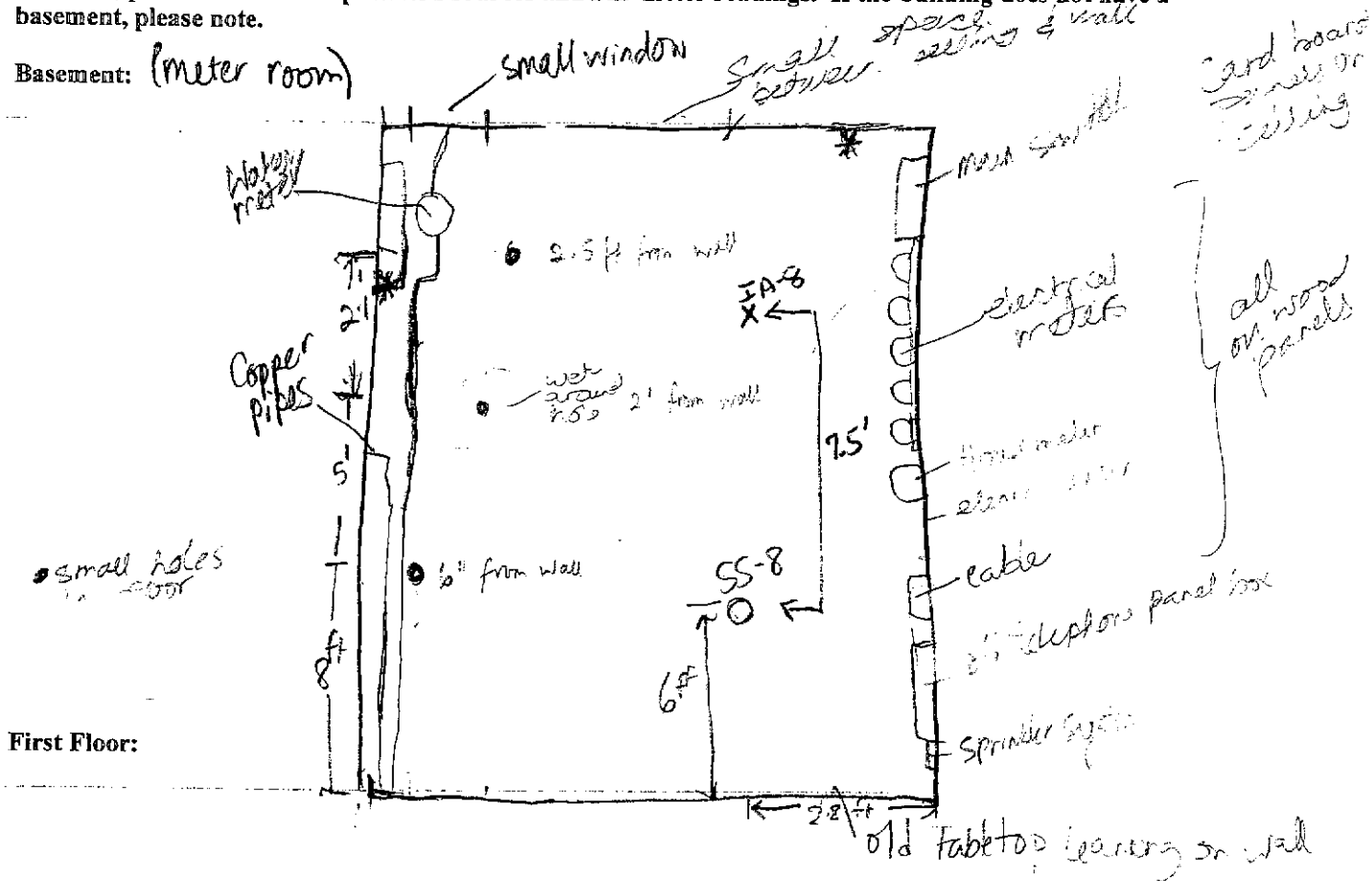
c. Responsibility for costs associated with reimbursement explained? Y / N

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

11. FLOOR PLANS

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

Basement: (meter room)



First Floor:

Dusty, stale odor

- * 2" x 3" hole in ceiling where pipe enters room
- 2" x 4" hole in concrete wall

* Due to high humidity levels in basement (meter room) accurate PID readings could not be measured

- See attached photos of meter room in building #8.

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.

Appendix B

APPENDIX B

Soil, Vapor and Outdoor Ambient Air Sampling Forms

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 10:35 (8/24/06)

Weather: Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74.5°F	78.6°F
Bar. Pressure (" of Hg):	30"	

Humidity: 63% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Meter Room Building 1

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Sub-slab sample point

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: N Sampling Depth: 8 inches below top of basement slab

Sealed at land surface and rod tip: N Purge Rate: 0.1669 Must be less than 0.2 L/min

Purge Time: 10 seconds note: Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time? N

Starting Pressure: -31 in. of Hg Starting Time: 10:45:00 AM (8/23/06)

Ending Pressure: -4 in. of Hg Ending Time: 10:35:00 AM (8/24/06)

Elapsed Time: 23 Hours 50 minutes

Summa Canister Identification # 3248 Flow Regulator ID # 3736

Sample ID # SS-1 Shipping Date: 8/24/2006

Batch Certification ID: 3248 ECBH

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 10:36 (8/24/06)

Weather: Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74°F	78.6°F
Bar. Pressure (" of Hg):	30"	

Humidity: 63% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Meter Room Building 1

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Indoor Air Sample

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: Y N Sampling Depth: 1-foot above land surface
N/A

Sealed at land surface and rod tip: Y N Purge Rate: N/A Must be less than 0.2 L/min
N/A

Purge Time: N/A note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Canister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? Y N

Starting Pressure: -31 in. of Hg Starting Time: 10:48:00 AM (8/23/06)

Ending Pressure: -3.5 in. of Hg Ending Time: 10:36:00 AM (8/24/06)

Elapsed Time: 23 Hours 48 minutes

Summa Canister Identification # 3320 Flow Regulator ID # 2764

Sample ID # IA-1 Shipping Date: 8/24/2006

Batch Certification ID: 3320 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 9:35 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74°F	79.3°F
Bar. Pressure (" of Hg):	30"	

Humidity: 60% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Meter Room Building 2

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Sub-slab sample point

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: N Sampling Depth: 8 inches below top of basement slab

Sealed at land surface and rod tip: N Purge Rate: 0.1669 Must be less than 0.2 L/min

Purge Time: 10 seconds note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? N

Starting Pressure: -30 in. of Hg Starting Time: 9:52:00 AM (8/23/06)

Ending Pressure: 0 in. of Hg Ending Time: 9:35:00 AM (8/24/06)

Elapsed Time: 23 Hours 43 minutes

Summa Canister Identification # 2624 Flow Regulator ID # 4027

Sample ID # SS-2 Shipping Date: 8/24/2006

Batch Certification ID: 2624 ECBM

Analysis: TO-15

Signature: _____TB_____

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 9:36 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74°F	79.3°F
Bar. Pressure (" of Hg):	30"	

Humidity: 56% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Meter Room Building 2

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Indoor Air Sample

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: Y N Sampling Depth: 1-foot above land surface

N/A

Sealed at land surface and rod tip: Y N Purge Rate: N/A Must be less than 0.2 L/min

N/A

Purge Time: N/A note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Canister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? Y N

Starting Pressure: -30 in. of Hg Starting Time: 9:48:00 AM (8/23/06)

Ending Pressure: 0 in. of Hg Ending Time: 9:36:00 AM (8/24/06)

Elapsed Time: 23 Hours 48 minutes

Summa Canister Identification # 2869 Flow Regulator ID # 3104

Sample ID # IA-2 Shipping Date: 8/24/2006

Batch Certification ID: 2869 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 9:55 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74°F	78.5°F
Bar. Pressure (" of Hg):	30"	

Humidity: 75% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Meter Room Building 3

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Sub-slab sample point -Small hole in floor 2 feet west of sample location.

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: N Sampling Depth: 8 inches below top of basement slab

Sealed at land surface and rod tip: N Purge Rate: 0.1669 Must be less than 0.2 L/min

Purge Time: 10 seconds note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? N

Starting Pressure: -30 in. of Hg Starting Time: 10:08:00 AM (8/23/06)

Ending Pressure: -4 in. of Hg Ending Time: 9:55:00 AM (8/24/06)

Elapsed Time: 23 Hours 47 minutes

Summa Canister Identification # 2643 Flow Regulator ID # 3961

Sample ID # SS-3 Shipping Date: 8/24/2006

Batch Certification ID: 2643 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 10:50 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74°F	78.5°F
Bar. Pressure (" of Hg):	30"	

Humidity: 75% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Inside Meter Room Building 3

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Indoor Air Sample

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: Y N Sampling Depth: 1-foot above land surface

N/A

Sealed at land surface and rod tip: Y N Purge Rate: N/A Must be less than 0.2 L/min

N/A

Purge Time: N/A note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? Y N

Starting Pressure: -31 in. of Hg Starting Time: 10:11:00 AM (8/23/06)

Ending Pressure: -4 in. of Hg Ending Time: 10:50:00 AM (8/24/06)

Elapsed Time: 24 Hours 39 minutes

Summa Canister Identification # 3437 Flow Regulator ID # 3990

Sample ID # IA-3 Shipping Date: 8/24/2006

Batch Certification ID: 3437 ECBH

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 9:13 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74°F	77.6°F
Bar. Pressure (" of Hg):	30"	

Humidity: 60% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Meter Room Building 4

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Sub-slab sample point -Small hole in floor 5 feet west of sample location.

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: N Sampling Depth: 8 inches below top of basement slab

Sealed at land surface and rod tip: N Purge Rate: 0.1669 Must be less than 0.2 L/min

Purge Time: 10 seconds note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? N

Starting Pressure: -30 in. of Hg Starting Time: 9:20:00 AM (8/23/06)

Ending Pressure: -4 in. of Hg Ending Time: 9:13:00 AM (8/24/06)

Elapsed Time: 23 Hours 53 minutes

Summa Canister Identification # 3198 Flow Regulator ID # 3112

Sample ID # SS-4 Shipping Date: 8/24/2006

Batch Certification ID: 3198 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 09:14 (8/24/06)

Weather: Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74°F	77.6°F
Bar. Pressure (" of Hg):	30"	

Humidity: 60% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Inside Meter Room Building 4

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Indoor Air Sample - Small hole in floor 5 feet west of sample location.

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: Y N Sampling Depth: 1-foot above land surface

N/A

Sealed at land surface and rod tip: Y N Purge Rate: N/A Must be less than 0.2 L/min

N/A

Purge Time: N/A note: Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Canister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time? Y N

Starting Pressure: -29 in. of Hg Starting Time: 9:22:00 AM (8/23/06)

Ending Pressure: -2 in. of Hg Ending Time: 9:14:00 AM (8/24/06)

Elapsed Time: 23 Hours 52 minutes

Summa Canister Identification # 3497 Flow Regulator ID # 3988

Sample ID # IA-4 Shipping Date: 8/24/2006

Batch Certification ID: 3497 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 11:04 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	75°F	78°F
Bar. Pressure (" of Hg):	30"	

Humidity: 66% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T.Bispham

Sampling Location: Meter Room Building 5

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Sub-slab sample point -Holes in ceiling where utility lines and pipes enter room.

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: N Sampling Depth: 8 inches below top of basement slab

Sealed at land surface and rod tip: N Purge Rate: 0.1669 Must be less than 0.2 L/min

Purge Time: 10 seconds note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? N

Starting Pressure: -30 in. of Hg Starting Time: 11:32:00 AM (8/23/06)

Ending Pressure: -4 in. of Hg Ending Time: 11:04:00 AM (8/24/06)

Elapsed Time: 23 Hours 32minutes

Summa Canister Identification # 2565 Flow Regulator ID # 3020

Sample ID # SS-5 Shipping Date: 8/24/2006

Batch Certification ID: 2565 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 11:07 (8/24/06)

Weather: Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	75°F	78°F
Bar. Pressure (" of Hg):	30"	

Humidity: 66% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Inside Meter Room Building 5

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Indoor Air Sample -Holes in ceiling where utility lines and pipes enter room.

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: Y N Sampling Depth: 1-foot above land surface

N/A

Sealed at land surface and rod tip: Y N Purge Rate: N/A Must be less than 0.2 L/min

N/A

Purge Time: N/A note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Canister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? Y N

Starting Pressure: -30 in. of Hg Starting Time: 11:34:00 AM (8/23/06)

Ending Pressure: -3 in. of Hg Ending Time: 11:07:00 AM (8/24/06)

Elapsed Time: 23 Hours 33 minutes

Summa Canister Identification # 3390 Flow Regulator ID # 4063

Sample ID # IA-5 Shipping Date: 8/24/2006

Batch Certification ID: 3390 ECBO

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 13:00 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74°F	77°F
Bar. Pressure (" of Hg):	30"	

Humidity: 77% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Meter Room Building 6

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Sub-slab sample point -Water covering western portion of floor, encompassing 30% of the room area.

Prior to commencing GeoProbe use, ensure that all rods were properly decontaminated and that a new disposable tip is in place.

Utility Clearance Completed: N Sampling Depth: 8 inches below top of basement slab

Sealed at land surface and rod tip: N Purge Rate: 0.1469 Must be less than 0.2 L/min

Purge Time: 10 seconds note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? N

Starting Pressure: -31 in. of Hg Starting Time: 13:35:00 PM (8/23/06)

Ending Pressure: -4 in. of Hg Ending Time: 13:00:00 PM (8/24/06)

Elapsed Time: 23 Hours 25 minutes

Summa Canister Identification # 2738 Flow Regulator ID # 3068

Sample ID # SS-6 Shipping Date: 8/24/2006

Batch Certification ID: 2738 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 12:10 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	74°F	77°F
Bar. Pressure (" of Hg):	30"	

Humidity: 77% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T.Bispham

Sampling Location: Inside Meter Room Building 6

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Indoor Air Sample -Water covering western portion of floor, encompassing 30% of the room area.

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: Y N Sampling Depth: 1-foot above land surface

N/A

Sealed at land surface and rod tip: Y N Purge Rate: N/A Must be less than 0.2 L/min

N/A

Purge Time: N/A note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? Y N

Starting Pressure: -30 in. of Hg Starting Time: 13:36:00 PM (8/23/06)

Ending Pressure: -4 in. of Hg Ending Time: 12:10:00 PM (8/24/06)

Elapsed Time: 22 Hours 34 minutes

Summa Canister Identification # 3885 Flow Regulator ID # 3442

Sample ID # IA-6 Shipping Date: 8/24/2006

Batch Certification ID: 3885 ECBH

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 11:49 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	75°F	77°F
Bar. Pressure (" of Hg):	30"	

Humidity: 60% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Meter Room Building 7

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Sub-slab sample point -Holes in ceiling where utility lines and pipes enter room.

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: N Sampling Depth: 8 inches below top of basement slab

Sealed at land surface and rod tip: N Purge Rate: 0.1669 Must be less than 0.2 L/min

Purge Time: 10 seconds note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? N

Starting Pressure: -31 in. of Hg Starting Time: 12:12:00 PM (8/23/06)

Ending Pressure: -4 in. of Hg Ending Time: 11:49:00 PM (8/24/06)

Elapsed Time: 23 Hours 37 minutes

Summa Canister Identification # 4115 Flow Regulator ID # 3999

Sample ID # SS-7 Shipping Date: 8/24/2006

Batch Certification ID: 4115 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 11:30 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	75°F	77°F
Bar. Pressure (" of Hg):	30"	

Humidity: 60% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: Inside Meter Room Building 7

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Indoor Air Sample -Holes in ceiling where utility lines and pipes enter room.

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: Y N Sampling Depth: 1-foot above land surface
N/A

Sealed at land surface and rod tip: Y N Purge Rate: N/A Must be less than 0.2 L/min
N/A

Purge Time: N/A note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? Y N

Starting Pressure: -30 in. of Hg Starting Time: 12:14:00 PM (8/23/06)

Ending Pressure: -4 in. of Hg Ending Time: 11:30:00 PM (8/24/06)

Elapsed Time: 23 Hours 16 minutes

Summa Canister Identification # 4118 Flow Regulator ID # 3652

Sample ID # IA-7 Shipping Date: 8/24/2006

Batch Certification ID: 4118 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 12:21 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	75°F	78°F
Bar. Pressure (" of Hg):	30"	

Humidity: 77% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T.Bispham

Sampling Location: Meter Room Building 8

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Sub-slab sample point

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: N Sampling Depth: 8 inches below top of basement slab

Sealed at land surface and rod tip: N Purge Rate: 0.1669 Must be less than 0.2 L/min

Purge Time: 10 seconds note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? N

Starting Pressure: -30 in. of Hg Starting Time: 2:15:00 PM (8/23/06)

Ending Pressure: -3.5 in. of Hg Ending Time: 2:16:00 PM (8/24/06)

Elapsed Time: 24 Hours 1 minute

Summa Canister Identification # 2614 Flow Regulator ID # 3489

Sample ID # SS-8 Shipping Date: 8/24/2006

Batch Certification ID: 2614 ECBK

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 14:16 (8/24/06)

Weather : Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	75°F	78°F
Bar. Pressure (" of Hg):	30"	

Humidity: 77% (indoor) Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T.Bispham

Sampling Location: Inside Meter Room Building 8

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Indoor Air Sample -Holes in ceiling where utility lines and pipes enter room; 3 small holes in floor.

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: Y N Sampling Depth: 1-foot above land surface

N/A

Sealed at land surface and rod tip: Y N Purge Rate: N/A Must be less than 0.2 L/min

N/A

Purge Time: N/A note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? Y N

Starting Pressure: -30 in. of Hg Starting Time: 14:16:00 PM (8/23/06)

Ending Pressure: -2.5 in. of Hg Ending Time: 12:21:00 PM (8/24/06)

Elapsed Time: 23 Hours 5 minutes

Summa Canister Identification # 3704 Flow Regulator ID # 2831

Sample ID # IA-8 Shipping Date: 8/24/2006

Batch Certification ID: 3704 ECBM

Analysis: TO-15

Signature: TB

Roux Associates Inc. Soil Vapor Sampling Form

Sample Date: 8/23/2006 Sample Time: 11:19 (8/24/06)

Weather: Clear And Sunny

	Ambient	Indoor
Temp. (Deg. F):	75°F	
Bar. Pressure (" of Hg):	30"	

Humidity: 62% Wind Direction: NW Wind Magnitude: 6 mph

Sampling Team: T. Bispham

Sampling Location: North Side of Building 1

Site Condition (i.e. any adjacent questionable facilities, vent pipes, tanks, etc.)

Outdoor Ambient Air Sample

Prior to commencing GeoProbe use, ensure that all rods were properly deconed and that a new disposable tip is in place.

Utility Clearance Completed: Y N Sampling Depth: 1-foot above land surface

N/A

Sealed at land surface and rod tip: Y N Purge Rate: N/A Must be less than 0.2 L/min

N/A

Purge Time: N/A note : Assuming 0.17" I.D. tubing purge 15 sec. for every 10 ft of tubing

Summa Cannister Size? (Circle One.) 1 Liter 6 Liter

Is the Summa Canister Certified Clean and within the proper holding time ? Y N

Starting Pressure: -30 in. of Hg Starting Time: 12:41 PM (8/23/06)

Ending Pressure: -3 in. of Hg Ending Time: 11:19 AM (8/24/06)

Elapsed Time: 22 Hours 38 minutes

Summa Canister Identification # 2892 Flow Regulator ID # 3948

Sample ID # Amb-82306 Shipping Date: 8/24/2006

Batch Certification ID: 2892 ECBM

Analysis: TO-15

Signature: TB

Appendix C

APPENDIX C

Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

September 15, 2006

Christopher Proce
Roux Associates
209 Shafter St.
Islandia, NY 11749

RE: **Data Usability Summary Report for the MBA-Manorhaven site**
STL-VT SDG No. 115992

Dear Mr. Proce:

Review has been completed for the data package generated by Severn Trent Laboratories (STL) that pertains to seventeen air samples collected 8/24/06 at the MBA Manorhaven site. Eight summa canisters were processed for site-specific volatiles by USEPA method TO-15 and nine other summa canister samples were processed for the same target analytes by a low level method TO-15.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary tables have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOP HW-18 and the USEPA National Functional Guidelines for Organic Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Holding Times
- * Internal Standard Recoveries
- * Preparation Blanks
- * Laboratory Control Samples
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

In summary, most sample results are usable as reported, or usable with minor edit or qualification as estimated due to typical processing or matrix effects. No data are rejected. Results for two indoor air samples (IA-2 and IA-8) are qualified as estimated with a low bias of unknown degree due to the fact that they were already at ambient vacuum when received by the laboratory. Those results should be used with caution.

Red-ink qualified/edited copies of sample results forms reflecting the qualifications and edits discussed in this narrative are provided with this text. Also attached are data qualifier definitions and sample identification summaries.

The following text discusses quality issues of concern.

Volatile Analyses by EPA TO-15 and Low Level TO-15

Holding times, internal standard recoveries, and instrumental tunes were acceptable. Blanks show no contamination.

The detections of chloroform in IA-1 and 4-ethyltoluene in IA-2 are qualified as being tentative in identification and estimated in value "NJ" due to poor mass spectral quality.

Laboratory Control Samples (LCSs) show acceptable recoveries, with the exception of those for 3-chloropropene, n-hexane, and n-heptane (60% to 69%) in the LCSs associated with indoor air samples processed at low level. Results for the three compounds in those associated samples are therefore qualified as estimated, with a possible low bias.

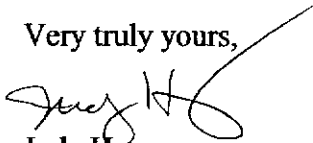
Calibration standard curves were run at varying concentration ranges, covering the scope of associated sample constituency. In addition to the standard curves that utilize the routine volumes of 200 mL, a low level calibration curve was run utilizing 500 mL volumes. The GC/MS computer files for the low level standards and QC analyses reflect an incorrect volume. The correct volumes are documented on the run logs, and confirmed with the laboratory. Volumes on the field sample files are correct, and quantitative results have been substantiated.

The linearity and consistency of response in the calibration standards were within validation guidelines, with the exception of low recoveries for three compounds (already qualified in associated samples due to LCSs) and elevated recoveries for five compounds not detected in associated samples (therefore with no effect on reported results).

The samples were processed with lower sample volumes in order to bring detected analyte concentrations into the instrument calibration range. This results in elevated reporting limits for analytes that were not detected in those samples.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,


Judy Harry

VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

LABORATORY SAMPLE IDs AND CASE NARRATIVES

STL Burlington
 208 South Park Drive, Suite 1
 Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
 www.stl-inc.com

September 8, 2006

Mr. Chris Proce
 Roux Associates
 1377 Motor Parkway
 Islandia, NY 11749

Re: Laboratory Project No. THYPIN
Case: THYPIN; SDG: NY115992

Dear Mr. Proce:

Enclosed are the analytical results for the samples that were received by STL Burlington on August 25th, 2006. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 08/25/06 ETR No: 115992			
680724	SS-4	08/24/06	AIR
680725	IA-4	08/24/06	AIR
680726	SS-2	08/24/06	AIR
680727	IA-2	08/24/06	AIR
680728	SS-3	08/24/06	AIR
680729	SS-1	08/24/06	AIR
680730	IA-1	08/24/06	AIR
680731	IA-3	08/24/06	AIR
680732	SS-5	08/24/06	AIR
680733	IA-5	08/24/06	AIR
680734	AMB-82306	08/24/06	AIR
680735	IA-7	08/24/06	AIR
680736	SS-7	08/24/06	AIR
680737	IA-6	08/24/06	AIR
680738	IA-8	08/24/06	AIR
680739	SS-8	08/24/06	AIR
680740	SS-6	08/24/06	AIR

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. The field samples IA-2 and IA-8 were received having a canister vacuum at ambient condition. The client was notified of this issue and directed the analysis to be performed as normal.

Method TO15 - Low Concentration Volatile Organics:

The analyses of the field samples IA-1, IA-2, IA-3, IA-4, IA-5, IA-6, IA-8 and AMB-82306 were accomplished at a dilution in order to get the response of the analyte with the highest concentration within the initial calibration range. Only the results for the dilution analysis were provided.

The analysis of the blank spike sample, ECBU LCS, which was associated with the samples, IA-4, IA-2, IA-1 and IA-7 exhibited a recovery for 3-Chloropropene that was below the established control limits. This analyte was not detected in the noted field samples.

The analysis of the blank spike sample, ECBU LCS exhibited recoveries for n-Hexane and n-Heptane that were outside the established control limits. These analytes were detected in the associated samples IA-4, IA-2, IA-1 and IA-7.

The analysis of the blank spike sample, ECBS LCS, which was associated with the samples, IA-3, IA-5, IA-6 and IA-8 exhibited a recovery for 3-Chloropropene that was below the established control limits. This analyte was not detected in the noted field samples.

The Continuing Calibration Verification (CCV) standard, ECBS CCV exhibited responses for Dichlorodifluoromethane and Carbon Tetrachloride that were above the established control limit. These analytes were reported in the associated samples IA-4, IA-2, IA-1 and IA-7.

The Continuing Calibration Verification (CCV) standard, ECBS CCV exhibited a response for 1,2 Dichlorotetrachloroethane that was above the established control limit. This analyte was reported in the associated sample IA-7.

The Continuing Calibration Verification (CCV) standard, ECBS CCV exhibited a response for 1,1,1 Trichloroethane that was above the established control limit. This analyte was reported in the associated samples IA-1, IA-4 and IA-7.

The Continuing Calibration Verification (CCV) standard, ECBU CCV exhibited a response for Dichlorodifluoromethane that was above the established control limit. This analyte was reported in the associated samples IA-3, IA-5, IA-6 and IA-8.

The Continuing Calibration Verification (CCV) standard, ECBU LCS exhibited a response for 3-Chloropropene that was below the established control limit, however this analyte was not detected in the associated samples. The samples associated with this CCV are IA-3, IA-5, IA-6 and IA-8.

The Continuing Calibration Verification (CCV) standard, ECBU CCV exhibited a response for N-Heptane that was outside the established control limit. This analyte was reported in the associated samples IA-3, IA-5, IA-6 and IA-8.

Method TO-15 – Routine Level Volatile Organics:

The original analysis of the field sample AMB-82306 was performed by the low concentration method and exhibited the presence of select target compounds that exceeded the calibration range of the instrument. Due to the concentrations present, the laboratory performed the subsequent dilution analysis by the routine level analysis.

The analyses of the field samples SS-1, SS-2, SS-3, SS-4, SS-5, SS-6, SS-7 and SS-8 were accomplished at a dilution in order to get the response of the analyte with the highest concentration within the initial calibration range. Only the results for the dilution analysis were provided.

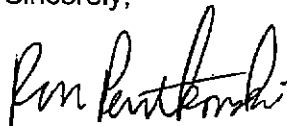
Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and extracted ion current profiles are included in the data package.

A summary of the laboratory's current Method Detection Limits (MDLs) was provided as part of this submittal. It is located immediately following this transmittal letter.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,



Ron Pentkowski
Project Manager

Enclosure

Appendix D

APPENDIX D

Soil Vapor, Indoor and Outdoor Ambient Air Analytical Results