INTERIM SITE MANAGEMENT PLAN – INDOOR AIR MONITORING REPORT FORMER EAST 11th STREET WORKS SITE – OU-1 MANHATTAN, NEW YORK SITE ID NO. 231110



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February 2020



Consolidated Edison Company of New York, Inc

INTERIM SITE MANAGEMENT PLAN – INDOOR AIR MONITORING REPORT

Former East 11th Street Works OU-1 Site No. 231110 Manhattan, New York

February 2020

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INDOOR AIR MONITORING REPORT

Former East 11th Street Works, Manhattan, NY

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ACRONYMS AND ABBREVIATIONS

Arcadis	Arcadis of New York, Inc.
Con Edison	Consolidated Edison Company of New York, Inc.
DUSR	Data Usability Summary Report
HASP	Health and Safety Plan
ISMP	Interim Site Management Plan for Indoor Air Monitoring
MGP	Manufactured Gas Plant
NYSDOH	New York State Department of Health
ppbRAE	portable organic vapor monitor
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

EXECUTIVE SUMMARY

This report presents a summary of the results from the October 28 through November 1, 2019 indoor air monitoring conducted by Arcadis of New York, Inc. (Arcadis) at Operable Unit #1 within the site, which includes the Jacob Riis Housing Development on behalf of Consolidated Edison Company of New York, Inc. (Con Edison). Indoor air monitoring was conducted in accordance with the procedures and protocols presented in the *Interim Site Management Plan for Indoor Air Monitoring* (Arcadis 2009) (ISMP). The ISMP is a component of a monitoring plan in place to ensure that potential exposure to MGP related contaminants by the public and the environment is monitored and controlled until a final remedy for the Former East 11th Street Works Site (the site) is implemented.

A summary of the activities performed associated with the indoor air monitoring is included below. Tabulated laboratory results from the indoor air monitoring, a figure showing the sampling locations, photographic logs, sampling forms, and a compact disk (CD) containing copies of the Data Usability Summary Reports (DUSRs) are included as attachments. Deviations from the scope of work presented in the ISMP are also presented.

1 INDOOR AIR MONITORING

Prior to initiating field work, the site Health and Safety Plan (HASP) was reviewed and updated to ensure that task specific monitoring activities were consistent with Con Edison's Corporate Health and Safety Procedure A32.00 (Rules We Live By) and the most current guidance documents. A copy of the HASP was maintained on site during all work activities; all site personnel were required to review the HASP and sign an acknowledgement form stating that they understood the contents of the HASP and agreed to abide by its requirements. Tailgate meetings were conducted each morning to discuss the day's activities, critical work procedures, and safety requirements.

The dates that the annual indoor air sampling events were conducted are presented in Table 1.

Table 1. Sample Collection Dates

Location	Sample Collection Dates
Jacob Riis Housing Development 170 Avenue D, 178 Avenue D, 1115 FDR Drive 1141 FDR Drive, 1223 FDR Drive	October 28 through November 1, 2019

Pre-monitoring walk through visual inspections and chemical inventories were conducted concurrent with indoor air monitoring activities at each of the sampling locations. The objectives of the walk-through inspections and chemical inventories were to visually identify conditions that may affect or interfere with the indoor air monitoring, document the physical condition of the indoor air monitoring areas, and to confirm the sampling locations. Conditions identified during the visual inspections were generally consistent with conditions identified by Arcadis during visual inspections conducted in 2010, 2011, and 2013. Evidence of flooding (e.g., water marks on the exterior foundation walls) was evident on several buildings located closest to the FDR, potentially as a result of Hurricane Sandy, which severely impacted the lower east side of Manhattan in October 2012. Additionally, sewage water was observed in a storage room on the south east side in the building located at 1223 FDR Drive.

During the walk-through inspections, floor construction details for each building were documented and New York State Department of Health (NYSDOH) Indoor Air Quality Questionnaires and Building Inventory Forms were completed (**Appendix A**). Photographs of the areas where samples were collected to document general background conditions and the chemical products present that potentially contain volatile chemicals during the walkthrough inspections are provided in **Appendix B**.

The locations selected for indoor monitoring are presented on **Figure 1** and are consistent with those shown in the ISMP. The selected locations for each building are the same as the locations sampled during the 2007, 2010, 2011, and 2013 indoor air monitoring events.

As identified in the photographic logs, small quantities of containers containing paints, solvents, cleaning supplies, and/or maintenance-related chemical products were present in each of the buildings during the walk-through inspections. These conditions are also similar to the conditions identified during the walk-through inspections associated with the previous sampling events. Removal of these potential interferences

arcadis.com G:\Projects\Consolidated Edison\East 11th Street\Indoor Air Report 01.2020\014202024573 Con Edison E 11 St 2019 Air Report.docx prior to collection of indoor air samples was not feasible. A portable organic vapor monitor (ppbRAE) was used to measure volatile organic compounds (VOCs) liberated from these contemporary chemicals. The measured concentrations of VOCs in each area monitored in each building were 0 parts per billion.

Photographic logs documenting the conditions/stored products at these locations are included as **Appendix E**.

Air samples for laboratory testing were collected using batch-certified clean, 6-liter SUMMA canisters equipped with laboratory pre-set flow regulators for 8-hour sample collection. Indoor air samples were collected from within the ground levels of each building within the breathing zone (approximately 3 to 4 feet above the floor). The date, times (start and end times), sample identification, and other required information were recorded on sample collection logs as described in the ISMP. The sample collection logs are included as **Appendix C**. Outdoor, ambient air monitoring was conducted from upwind locations each day indoor air samples were collected. Ambient air sampling locations are also presented on **Figure 1**.

Air samples were sent to TestAmerica Laboratories located in Knoxville, Tennessee via overnight courier for analysis of the project compound list analytes by United States Environmental Protection Agency (USEPA) Method TO-15. The project compound list included standard TO-15 VOCs, along with additional analyses for n-alkanes, branched alkanes, and other "indicator" compounds (the branched alkanes and other "indicator" compounds were reported as tentatively identified compounds). The laboratory provided ASP Category B-equivalent data packages for quality review. Laboratory data packages and associated quality control information were reviewed by qualified Arcadis personnel to verify they met the project-specific criteria for data quality. DUSRs were prepared that present the results from the data review for each sample data group; DUSRs are included as **Appendix D**. The DUSRs indicate that the laboratory results for each site met the data quality objectives and the data were considered usable.

The laboratory results for the East 11th Street OU-1 site are summarized in **Table 2**. Consistent with ISMP requirements, for comparison purposes, the indoor air results are compared to the NYSDOH's *FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006 with 2017 amendment)*, Upper Fence (F) Criterion for indoor air background data for fuel oil heated homes and the USEPA's 2001 *Building Assessment Survey and Evaluation (BASE) Study* guidance values for the 90th percentile background air levels to provide typical concentrations of VOCs in indoor air. These studies have been conducted, both nationally and in the State of New York, to provide information on indoor and outdoor air background levels in a variety of settings (e.g., residential or commercial buildings). Per NYSDOH guidance, the Upper F values from the NYSDOH Fuel Oil Study data may be used as initial benchmarks when evaluating residential indoor air, and the 90th percentile values from the EPA BASE data for indoor air in office and commercial buildings.

2 **RESULTS AND CONCLUSIONS**

Eighteen (18) indoor air samples (labeled based on building address), 4 ambient samples (AA-102919, AA-103019, AA103119, and AA-110119), and 2 duplicate samples for quality control purposes (DUP-103119 and DUP-110119) were collected for laboratory analysis. The sample collection logs are included on a CD as **Appendix C**; photographs documenting the sample locations and equipment set-up are included on a CD as **Appendix E**. The laboratory results are presented in **Table 2**.

The ISMP included the collection of five air samples from elevator shafts within the site buildings (one sample from an elevator shaft within each building sampled); however, based upon inspection with Con Edison prior to the 2010 monitoring event, the elevator shafts were unable to be accessed safely for visual inspection and sample collection without terminating elevator operation. Terminating elevator operation was not feasible; therefore, consistent with the previous monitoring events, elevator shaft samples were not be collected.

As indicated in **Table 2**, a total of 40 VOC analytes included in the TO-15 analyses (including analytes qualified as estimated because their value was less than the minimum calibration level but greater than the estimated detection limit) were detected in the 18 indoor air samples collected throughout the site. This is consistent with previous indoor air sampling results. A summary of the detected analytes include:

- Of the 40 TO-15 VOCs detected in indoor air, 30 were also detected in ambient (i.e., outdoor) air. The 10 analytes detected in indoor air that were not detected in outdoor ambient air included 8 chlorinated compounds (various compounds in multiple sample locations), bromomethane (5 sample locations), and naphthalene (6 sample locations).
- When compared to the concentrations detected in the ambient air samples, 25 of the 40 TO-15 VOCs were detected in indoor samples at concentrations similar to or greater than the outdoor concentrations. The TO-15 VOCs detected at higher concentrations indoors included 19 chlorinated compounds.
- Ten (10) of the TO-15 VOC analytes detected in indoor air samples were above the NYSDOH Upper F criterion: 1,2,4-trimethylbenzene (1 location), 1,3,5-trimethylbenzene (1 location),1,4-dichlorobenzene (7 locations), 2-butanone (1 location), 2-methyl-2-pentanone (1 location), chloromethane (1 location), chloroform (15 locations), methylene chloride (3 locations), naphthalene (1 location), tetrachloroethene (1 location). Four of those analytes were also present above the USEPA indoor air background level (1,2,4-trimethylbenzene (1 sample) chloroform [5 samples], methylene chloride (2 locations), and naphthalene (1 location).
- Commonly identified "fuel oil or petroleum products indicators" (e.g., n-butane, n-pentane, n-heptane, isooctane, isopentane and 2-methylpentane) that were included in the n-alkanes and branched alkanes analyte lists were identified in all outdoor ambient air samples and indoor air samples. Each of these "indicator" analytes was detected in multiple indoor air samples at concentrations higher than detected in the ambient air samples.
- Indene and thiopene were not detected in any of the samples collected; these compounds are commonly used as "Manufactured Gas Plant (MGP) indicators".
- Chloroform was detected in each of the indoor and outdoor samples collected for analysis, and was present at concentrations above both the NYSDOH Upper F and USEPA BASE 90th percentile values

arcadis.com G:\Projects\Consolidated Edison\East 11th Street\Indoor Air Report 01.2020\014202024573 Con Edison E 11 St 2019 Air Report.docx in all but two of the indoor air samples. Chloroform is a man-made by-product used in industrial processes and as a solvent for lacquers, floor polishes, resins, and adhesives, and; therefore, not related to MGP operations.

 Other TO-15 VOC compounds that were reported in indoor air above both the NYSDOH Upper F and USEPA BASE 90th percentile values at multiple locations (i.e., two or more locations) included 1,4dichlorobenzene, 4-methyl-2-pentanone, and methylene chloride. 1,4-dichlorobenzene is commonly used as in insecticides, fungicides, and pesticides, while 4-methyl-2-pentanone and methylene chloride are widely used as solvents for gums, resins, paints, varnishes, and lacquers.

Where analyzed, helium, used as a tracer gas, was not detected in any of the indoor air or ambient air samples. This indicates that no leaks, short-circuiting, or cross-contamination in the sampling equipment/procedures were present.

Based on the types of analytes detected, as well as the solvents, cleaning supplies, petroleum, oils, and maintenance-related chemical products stored within the ground-level areas/basements, and coupled with the absence of MGP indicator compounds, the data suggests that MGP-related impacts do not exist in the building areas monitored within the site.

3 WORK PLAN DEVIATIONS

The following deviations from the scope of work presented in the ISMP occurred during the field activities:

- Consistent with previous ISMP sampling events, due to the limitations of site access, the pre-monitoring
 walk through inspections and chemical inventories at each building were conducted concurrent with
 indoor air monitoring activities.
- Consistent with the previous ISMP sampling events, the elevator shafts were unable to be accessed for walk-through inspections and monitoring due to the inability to safely access the shafts without terminating elevator operation. Terminating elevator operation was not feasible; therefore the samples could not be collected.
- Haven Plaza North Co-Op Apartments and Saint Emeric's (including the Escuela Hispania Montessori Head Start School and the Church of Saint Emeric's) were not inspected and sampled at this time due to lack of access.
- The laboratory did not analyze for helium at 10 of the 22 sampling locations. The SUMMA canisters had already been purged by the laboratory when the analytical results were provided to Arcadis; therefore, the laboratory could not go back and re-analyze for helium.

No additional deviations from the scope of work presented in the ISMP were noted.

TABLES



Table 2 Indoor Air Analytical Results - East 11th Street OU-1

Location ID:	NYSDOH Fuel Oil	USEPA BASE		AA-102919	AA-103019	AA-103119	AA-110119	.IR-1115-IA-1	JR-1115-IA-2	JR-1115-IA-3	JR-1115-IA-4	JR-1141-IA-1	.IR-1141-IA-2	JR-1141-JA-3	JR-1223-IA-1	.IR-1223-IA-2	JR-1223-IA-3	JR-1223-IA-4	JR-170-IA-1	JR-170-IA-2	JR-170-IA-3	.IR-170-IA-4	.IR-178-IA-1	.IR-178-IA-2	JR-178-IA-3
Ecoulon ID.	Heat - Indoor Air Upper Fence	Guidance Values 90th Percentile							01011101012			010-11-0-1	0101141-002		0101220-04-1	01012201742	011-1220-04-0	011-1220-144		010110-042	010-11-0-11-0				
Date Collected:			Units	10/29/19	10/30/19	10/31/19	11/01/19	10/31/19	10/31/19	10/31/19	10/31/19	10/29/19	10/29/19	10/29/19	11/01/19	11/01/19	11/01/19	11/01/19	10/31/19	10/31/19	10/30/19	10/30/19	10/30/19	10/30/19	10/30/19
Volatile Organic Compounds	1	1	1	1	1	1	1			1	1	r			1	1			1	1		r			
1,1,1-Trichloroethane	2.5	20.6	ug/m3	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U [0.44 U]	0.44 U [0.44 U]	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U				
1,1,2,2-Tetrachloroethane	0.38		ug/m3	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U [0.55 U]	0.55 U [0.55 U]	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U				
1,1,2-Trichloroethane	0.38	1.5	ug/m3	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U [0.44 U]	0.44 U [0.44 U]	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U				
1,1,2-1 richloroethane	2.5	0.7	ug/m3	0.32 11	0.32 II	0.32 II	0.53 J	0.32 II	0.3211	0.32 J	0.3211	0.32 J	0.32 U	0.32 II	0.32 J	0.3211	0.54 J	0.33 J [0.56 J]	0.55 J [0.53 J]	0.32 II	0.3211	0.51 J	0.32 II	0.32 II	0.32 J
1,1-Dichloroethene	0.4	1.4	ug/m3	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U [0.16 U]	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U				
1,2,4-Trichlorobenzene	0.47	6.8	ug/m3	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U [0.59 U]	0.59 U [0.59 U]	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U				
1,2,4-Trimethylbenzene	9.8	9.5	ug/m3	0.47	0.11 J	0.43	0.15 J	0.43	0.45	0.37 J	0.33 J	0.40	0.37 J	0.34 J	0.42	0.23 J	0.47	0.39 U [0.12 J]	0.49 [1.0]	0.42	0.44	0.57	24	0.80	0.58
1,2-Dibromoethane	0.38	1.5	ug/m3	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U [0.61 U]	0.61 U [0.61 U]	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.42		ug/m3	0.12 J	0.12 J	0.12 J	0.13 J	0.12 J	0.12 J	0.13 J	0.12 J	0.12 J	0.12 J	0.13 J [0.12 J]	0.10 J [0.13 J]	0.13 J	0.12 J	0.11 J	0.11 J	0.11 J	0.11 J				
1,2-Dichlorobenzene	0.48	1.2	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U [0.48 U]	0.48 U [0.48 U]	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U				
1,2-Dichloroethane	0.37	0.9	ug/m3	0.090 J	0.053 J	0.053 J	0.048 J	0.12 J	0.055 J	0.16 J	0.057 J	0.10 J	0.089 J	0.10 J	0.12 J	0.069 J	0.071 J	0.060 J [0.060 J]	0.18 J [0.17 J]	0.22 J	0.13 J	0.11 J	0.071 J	0.13 J	0.065 J
1,2-Dichloropropane	0.39	1.6	ug/m3	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U [0.37 U]	0.37 U [0.37 U]	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U				
1,3,5-Trimethylbenzene	3.9	3.7	ug/m3	0.25 J	0.39 U	0.21 J	0.39 U	0.12 J	0.14 J	0.14 J	0.39 U	0.13 J	0.13 J	0.12 J	0.13 J	0.39 U	0.14 J	0.39 U [0.39 U]	0.14 J [0.22 J]	0.14 J	0.31 J	0.33 J	6.3	0.37 J	0.34 J
1,3-Butadiene			ug/m3	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U [0.35 U]	0.35 U [0.35 U]	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U				
1,3-Dichlorobenzene	1.2	5.5	ug/m3	0.46 0	0.48 U	0.46 0	0.46 0	4.0	0.46 0	1.5	0.46 0	0.46 U	4 7	32	0.46 0	0.48 0	0.48 0	0.48 U [0.48 U]	14 [0 29 .1]	0.46 0	0.48 U	0.46 0	0.46 0	1.46 0	0.46 0
1 4-Dioxane			ug/m3	0.22.1	2.6	0.13.1	0.72 U	0.7211	0.12.1	0.22.1	0.72 U	0.7211	0.72 U	0.72.11	0.30.1	0.19.J	0.72 U	0.20.1 [0.72.1]	0.18.1 [0.72 UI	0.13.1	0.40 0	0.72 U	0.13.1	0.72 U	0.72 U
2-Butanone	16		ug/m3	0.93	0.84 J	6.8	0.34 J	2.4	1.8	1.4	1.5	1.4	1.6	1.4	0.87 J	0.75 J	1.4	0.84 J [1.1]	2.5 [2.5]	1.4	1.3	1.5	23	2.4	0.95
2-Hexanone			ug/m3	0.089 J	0.091 J	1.1	0.82 U	0.37 J	0.38 J	0.18 J	0.12 J	0.14 J	0.20 J	0.16 J	0.088 J	0.098 J	0.24 J	0.073 J [0.15 J]	0.43 J [0.12 J]	0.19 J	0.14 J	0.19 J	0.47 J	0.35 J	0.077 J
4-Ethyltoluene			ug/m3	0.28 J	0.79 U	0.79 U	0.79 U	0.57 J	0.79 U	0.54 J	0.79 U	0.28 J	0.37 J	0.34 J	0.23 J	0.19 J	0.18 J	0.79 U [0.79 U]	0.79 U [0.56 J]	0.79 U	0.20 J	0.37 J	6.5	0.39 J	0.37 J
4-Methyl-2-Pentanone	1.9		ug/m3	3.0 J	0.32 J	0.82 U	0.24 J	0.53 J	0.84	0.32 J	0.97	0.23 J	0.33 J	0.45 J	0.37 J	1.1	0.30 J	0.25 J [0.82 U]	1.7 [0.45 J]	0.95	0.55 J	0.47 J	2.1 J	0.47 J	0.41 J
Acetone	115		ug/m3	7.5 J	7.6 J	15 J	3.9 J	30 J	22 J	21 J	13 J	14 J	18 J	15 J	11 J	8.3 J	12 J	7.4 J [13 J]	21 J [38 J]	16 J	13	13 J	18	23 J	9.6 J
Benzene	13	9.4	ug/m3	0.69	0.83	0.49	0.41	1.2	0.85	0.76	0.56	0.71	0.77	0.78	0.50	0.43	1.8	0.50 [0.37]	0.63 J [2.9 J]	0.51	1.4	0.95	0.73	3.4	0.58
Benzyl chloride			ug/m3	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U [0.83 U]	0.83 U [0.83 U]	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U				
Bromodichloromethane			ug/m3	0.54 U	0.54 U	0.54 U	0.54 U	0.24 J	0.44 J	0.24 J	0.17 J	4.4	3.6	5.8	2.1	0.54 U	1.2	0.54 U [0.54 U]	0.59 [0.45 J]	0.54 U	1.5	1.0	0.37 J	12	0.15 J
Bromotorm			ug/m3	0.83 U	0.83 U	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ [0.83 UJ]	0.83 UJ [0.83 UJ]	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
	0.46	1.7	ug/m3	0.310	0.310	11	0.035 1	0.066 J	0.510	0.310	0.000 J	17	0.007 J	0.310	0.310	0.310	0.310	0.011 [0.310]	0.34 [0.20 J]	0.000 J	0.310	0.310	0.310	0.310	0.310
Carbon Tetrachloride	1.3	1.3	ug/m3	0.49	0.50	0.50	0.46	0.50	0.51	0.51	0.47	0.52	0.53	0.56	0.48	0.46	0.51	0.44 [0.50]	0.76 [0.66]	0.50	0.58	0.43	0.52	0.55	0.48
Chlorobenzene	0.41	0.9	ug/m3	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U [0.37 U]	0.37 U [0.37 U]	0.37 U	0.37 U	0.37 U	0.37 U	0.084 J	0.37 U				
Chloroethane	0.39	1.1	ug/m3	0.21 U	0.21 U	0.076 J	0.14 J	0.084 J	0.21 U	0.092 J	0.21 U	0.21 U	0.21 U	0.21 U [0.21 U]	0.21 U [1.0]	0.21 U	0.21 U	0.21 U	0.21 U	0.12 J	0.21 U				
Chloroform	1.2	1.1	ug/m3	0.19 J	0.25 J	0.22 J	0.26 J	4.4	2.8	2.9	1.2	26	22	34	13	0.57	6.8	0.38 J [0.42]	3.7 [2.9]	0.57	8.6	6.2	2.2	49	1.3
Chloromethane	4.2	3.7	ug/m3	1.1	1.4 J	1.4	1.4	2.3 J	1.7 J	1.8 J	2.5	1.6 J	1.5	1.8	1.6 J	1.5 J	1.6 J	1.5 J [1.3]	2.0 J [2.6 J]	2.0	1.2	1.1	1.4	1.5	1.4 J
cis-1,2-Dichloroethene	0.41	1.9	ug/m3	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.25	0.16 U [0.16 U]	0.16 U [0.16 U]	0.16 U	0.16 U	0.16 U	0.041 J	0.39	0.16 U				
cis-1,3-Dichloropropene	0.38	2.3	ug/m3	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U [0.36 U]	0.36 U [0.36 U]	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U				
Cyclohexane	6.3		ug/m3	0.40 J	0.33 J	0.26 J	0.17 J	0.26 J	0.26 J	0.24 J	0.23 J	0.40 J	0.37 J	0.36 J	0.62 J	0.13 J	0.20 J	0.30 J [0.14 J]	0.27 J [1.2]	0.22 J	0.77	0.38 J	0.39 J	0.53 J	0.31 J
Dibromochloromethane			ug/m3	0.68 U	0.68 U	0.68 U	0.68 U	0.48 J	0.37 J	0.60 J	0.28 J	0.68 U	0.17 J	0.68 U [0.68 U]	0.076 J [0.68 U]	0.68 U	0.15 J	0.12 J	0.68 U	1.5	0.68 U				
Dichlorodifluoromethane	10	16.5	ug/m3	2.6	1.4	1.5	1.2	1.3	1.3	1.4	1.4	1.4	1.3	1.4	1.2	1.3	1.4	1.5 [1.3]	1.3 [1.4]	1.3	2.7	2.5	2.6	2.7	2.6
	0.4	5.7	ug/m3	0.51	0.23 J	0.22 J	0.14 J	0.8511	0.29 J	0.27 J	0.23 J	0.8511	0.40	0.41	0.35	0.17 3	0.70	0.15 J [0.11 J]	0.41 [0.70]	0.30	0.8511	0.65	0.8511	0.8511	0.8511
Isopropanol			ug/m3	3.0	3.0	2.3	1.6 J	20	3.5	11	3.8	7.6	6.1	7.0	5.7	5.4	3.6	12 [14]	5.7 [3.0]	4.8	11	6.1	8.7	9.5	4.1
Methyl tert-butyl Ether	14	11.5	ua/m3	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U [0.58 U]	0.58 U [0.58 U]	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U				
Methylene Chloride	16	10	ug/m3	5.1 UB	1.9 UB	1.9 UB	2.0 UB	3.2 UB	5.4	3.5 UB	1.8 UB	3.5 UB	8.2	3.3 UB	3.3 UB	1.8 UB	2.2 UB	11 J [2.0 UBJ]	2.6 UBJ [18 J]	2.2 UB	25	5.0 UB	3.4 UB	3.3 UB	2.6 UB
m-Xylene & p-Xylene	11	22.2	ug/m3	2.0	0.60	0.75	0.42	1.0	0.92	0.89	0.79	1.2	1.3	1.2	1.4	0.55	0.57	0.44 [0.32 J]	1.5 J [3.8 J]	1.4	2.3	1.7	11	1.7	1.7
o-Xylene	7.1	7.9	ug/m3	0.65	0.19 J	0.31 J	0.17 J	0.37	0.36	0.34 J	0.29 J	0.47	0.46	0.43	0.65	0.24 J	0.31 J	0.15 J [0.13 J]	0.64 [1.2]	0.61	0.78	0.59	4.5	0.67	0.55
Naphthalene		5.1	ug/m3	1.0 U	1.0 U	1.0 U	1.0 U	0.89 J	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	0.44 J	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	8.1	0.81 J	1.0 U
Propylene			ug/m3	2.0 J	1.8 J	1.7 U	1.7 U	5.5 J	4.9 J	3.3 J	2.3 J	3.7 J	4.4 J	1.7 U	2.1 J	2.1 J	3.9 J	1.8 J [1.7 U]	2.1 J [7.5 J]	2.3 J	2.0 J	1.9 J	2.7 J	5.1 J	2.5 J
Styrene	1.4	1.9	ug/m3	0.44	0.34 U	0.34 U	0.34 U	0.67	0.22 J	0.31 J	0.25 J	0.53	0.53	0.44	0.16 J	0.34 U	0.34 U	0.34 U [0.34 U]	0.32 J [0.17 J]	0.30 J	0.32 J	0.46	0.70	0.92	0.48
Tetrachloroethene	2.5	15.9	ug/m3	1.6	0.88	0.63	0.50 J	0.66	0.58	0.90	0.62	1.6	1.5	1.5	0.55	2.0	2.4	0.48 J [0.63]	0.66 [0.59]	0.57	0.92	0.88	2.2	2.9	2.0
Tetrahydrofuran	0.78		ug/m3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U [1.2 U]	1.2 U [1.2 U]	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U				
trong 1.2 Disblargeth	57	43	ug/m3	3.4	2.3	1.6	0.86	2.8	3.7	2.4	1.9	2.9	3.0	3.0	16	1.6	1.2	2.0 [0.72]	2.3 J [11 J]	1.8	6.0	3.3	3.6	4.3	3.0
trans-1,2-Dichloroethene			ug/m3	0.32 U	0.32 U	0.32 U	0.32 U	0.099 J	0.32 U	0.32 U	0.32 U	0.065 J	0.064 J	0.028 J [0.32 U]	0.063 J [0.045 J]	0.32 U	0.072 J	0.088 J	0.32 U	0.26 U	0.32 U				
uans-1,3-טוטוטוסיסpropene Trichloroethene	0.4	1.3	ug/m3	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U			0.30 U	0.30 U	0.061	0.30 U	0.30 U	0.30 U				
Trichlorofluoromethane	12	18.1	ug/m3	1.3	1.3	1.3	1.3	1.2	14	14	1.3	14	14	1.4	12	1.3	1.3	1.5 [1.3]	1.3 [1.6]	1.3	2.0	1.2	1.2	1.3	1.3
Vinyl Chloride	0.37	1.9	ug/m3	0.095 J	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.069 J	0.10 U [0.10 U]	0.10 U [0.10 U]	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
																									-

Table 2 Indoor Air Analytical Results - East 11th Street OU-1

Location II	NYSDOH Fuel Oil	USEPA BASE		AA-102919	AA-103019	AA-103119	AA-110119	JR-1115-IA-1	JR-1115-IA-2	JR-1115-IA-3	JR-1115-IA-4	JR-1141-IA-1	JR-1141-IA-2	JR-1141-IA-3	JR-1223-IA-1	JR-1223-IA-2	JR-1223-IA-3	JR-1223-IA-4	JR-170-IA-1	JR-170-IA-2	JR-170-IA-3	JR-170-IA-4	JR-178-IA-1	JR-178-IA-2	JR-178-IA-3
Date Collected	Upper Fence	90th Percentile	Units	10/29/19	10/30/19	10/31/19	11/01/19	10/31/19	10/31/19	10/31/19	10/31/19	10/29/19	10/29/19	10/29/19	11/01/19	11/01/19	11/01/19	11/01/19	10/31/19	10/31/19	10/30/19	10/30/19	10/30/19	10/30/19	10/30/19
n-Alkanes					_	_		-	-	-	-		-							_					-
n-Butane			ug/m3	6.5	5.6	4.2	5.5	46 E	22	24	7.7	17	36	15	26	12	18	20 [3.8]	8.3 [29]	6.0	25	6.7	14	24	7.9
Pentane			ug/m3	1.8	1.4	1.1 J	1.3	2.9	1.5	2.2	1.6	2.5	2.9	2.2	47	0.76 J	0.97 J	5.6 [0.64 J]	4.6 [14]	1.3	7.6	2.2	26	2.7	1.5
n-Decane	15	17.5	ug/m3	0.83 J	2.3 U	1.1 J	0.24 J	1.9 J	40	1.6 J	2.7	1.4 J	1.1 J	1.3 J	1.2 J	1.2 J	1.4 J	2.3 U [0.39 J]	3.0 [1.1 J]	1.6 J	1.5 J	2.1 J	44	4.3	2.0 J
n-Dodecane	9.2		ug/m3	0.46 J	2.8 U	0.96 J	2.8 U	2.0 J	20	1.5 J	2.0 J	1.7 J	1.5 J	1.7 J	11	0.60 J	1.6 J	2.8 U [2.8 U]	2.5 J [2.8 U]	3.5	2.8 U	1.7 J	6.1	2.3 J	1.9 J
n-Heptane	18		ug/m3	0.45 J	0.36 J	0.34 J	0.21 J	0.62 J	0.60 J	0.46 J	0.35 J	0.46 J	0.57 J	0.46 J	0.44 J	0.29 J	0.34 J	0.37 J [0.23 J]	0.73 J [1.2]	0.38 J	0.96	0.56 J	6.6	0.66 J	0.51 J
n-Hexane	14	10.2	ug/m3	1.3	0.68 J	0.55 J	0.51 J	0.64 J	0.75	0.71	0.55 J	0.95	1.6	0.98	0.76	0.36 J	0.47 J	2.0 [0.38 J]	0.58 J [4.2 J]	0.50 J	5.2	1.4	2.0	1.1	0.82
n-Octane	5.2		ug/m3	0.23 J	0.15 J	0.19 J	0.12 J	0.55 J	1.6	0.31 J	0.27 J	0.21 J	0.30 J	0.24 J	0.29 J	0.19 J	0.22 J	0.14 J [0.13 J]	0.57 J [0.68 J]	0.21 J	0.46 J	0.33 J	6.8	0.44 J	0.40 J
Nonane	7.9	7.8	ug/m3	0.32 J	0.13 J	0.20 J	0.12 J	0.73 J	24	0.51 J	1.2	0.22 J	0.26 J	0.22 J	0.28 J	0.21 J	0.27 J	1.0 U [0.13 J]	0.39 J [0.40 J]	0.23 J	0.49 J	0.41 J	8.9	0.71 J	0.56 J
n-Undecane	12	22.6	ug/m3	0.37 J	2.6 U	0.53 J	2.6 U	0.79 J	17	0.56 J	1.2 J	0.41 J	0.41 J	0.41 J	0.68 J	2.6 U	0.44 J	2.6 U [2.6 U]	0.64 J [0.46 J]	0.86 J	2.6 U	0.59 J	25	1.5 J	0.81 J
Branched Alkanes (Reported as	TICs)												_				-								_
2,3-Dimethylpentane	5.2		ug/m3	0.19 J	0.14 J	0.11 J	0.33 U	0.11 J	0.11 J	0.12 J	0.33 U	0.18 J	0.17 J	0.16 J	0.12 J	0.33 U	0.33 U	0.17 J [0.33 U]	0.11 J [0.47]	0.33 U	0.37 J	0.18 J	0.18 J	0.19 J	0.15 J
Isopentane			ug/m3	3.3	2.7	2.1	2.6	4.7	2.3	3.3	3.0	5.2	6.0	8.3	7.1	1.6	1.8	8.5 J [0.98]	4.2 J [20 J]	2.0	13	3.9	4.4	3.0	2.4
2-methylpentane			ug/m3	0.96	0.59	0.49	0.47	0.49	0.45	0.49	0.55	0.87	0.90	0.79	0.38	0.29	0.32	1.2 J [0.27 J]	0.49 J [3.1 J]	0.45	2.7	0.93	0.74	0.87	0.73
Other (Reported as TICs)																									
Indane			ug/m3	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	2.8	0.39 U [0.39 U]	0.39 U [0.39 U]	0.39 U	0.55	0.86	1.5	6.0	0.39 U				
Indene			ug/m3	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U [0.76 U]	0.76 U [0.76 U]	0.76 U									
Isoctane			ug/m3	0.68 J	0.44 J	0.44 J	0.19 J	0.38 J	0.38 J	0.36 J	0.36 J	0.52 J	0.55 J	0.52 J	0.22 J	0.16 J	0.16 J	0.37 J [0.15 J]	0.38 J [1.2]	0.34 J	1.1	0.56 J	0.63 J	0.60 J	0.52 J
Thiopene			ug/m3	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U [0.28 U]	0.28 U [0.28 U]	0.28 U	0.28 U	0.28 U	0.28 U	0.055 J	0.28 U				
1,2,3-Trimethylbenzene			ug/m3	0.39 U	0.39 U	0.24 J	0.39 U	0.34 J	0.20 J	0.26 J	0.39 U	0.26 J	0.20 J	0.24 J	0.25 J	0.39 U	0.24 J	0.39 U [0.39 U]	0.74 [0.33 J]	0.39 U	0.39 U	0.22 J	5.3	0.68	0.18 J
Isopropylbenzene	0.82		ug/m3	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.16 J	0.79 U [0.79 U]	0.79 U [0.13 J]	0.79 U	0.13 J	0.12 J	0.67 J	0.53 J	0.79 U				
Miscellaneous																									
Helium			%v/v	NA	NA	0.17 U	0.18 U	0.16 U	0.16 U	0.16 U	0.15 U	NA	NA	NA	0.16 U	0.18 U	0.19 U	0.13 U [0.16 U]	0.17 U [0.14 U]	0.16 U	NA	NA	NA	NA	NA

Notes:

Lab Qualifier	Definition
D	Sample required dilution prior to analysis.
J	Indicates an estimated value. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
U	Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
[]	Identifies duplicate sample collected for quality control purposes.
bold font	Indicates analyte exceeded its NYSDOH Upper Fence Criterion.
shaded	indicates analyte exceeded the USEPA's BASE Guidance Value (90th Percentile).

FIGURES







APPENDIX A

NYSDOH Indoor Air Quality Questionnaires and Building Inventory Forms



NEW Y INDOOR AIR QUAI CEN	ORK STATE DEPARTMENT OF HEALTH JTY QUESTIONNAIRE AND BUILDING IN FER FOR ENVIRONMENTAL HEALTH	VENTORY
This form must be completed	for each residence involved in indoor air testing.	[Diag # 1141]
Preparer's Name Albing	Redrepagic Date/Time Prep	ared <u>10/29/2019</u> 9:30am
Preparer's Affiliation	cadis Phone No. 21	2-365-4651
Purpose of Investigation	Indoor Air Sampling	
1. OCCUPANT:	1 0	
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 LANDLOR	D: (Check if same as occupant)	
Interviewed: 🕢 N Mar	name Manager	
Last Name: Colly nore	First Name: Shawn	
Address: 474 Ea	st 10th Str.	
County: Manhaltan	1 X 4	
Home Phone:	Office Phone: 212-228.24	De
3. BUILDING CHARACTE	RISTICS	
Type of Building: (Circle app	propriate response)	
Residential School Industrial Church	ol Commercial/Multi-use ch Other:	

a

 $\mathbb{N}^{\mathbb{N}}$

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

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

If multiple units, how many? 117 units

If the property is commercial, type?

Business Type(s) N/A

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

Other characteristics:

Number of floors <u>13</u>	Building age 40 yers (1949)
Is the building insulated? (V)/ 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 Hore, No verbical air flow in disign, Possible air flow through gaps in piping, compactor Room trash our chute, or olevelor shaft.

Airflow near source Fan in the tank room, On during testing. Gaps between the door & Frame.

Outdoor air infiltration Through Pan air Exchange & doors opening & closing.

Infiltration into air ducts identified on the ground floor,

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:	unsea	ledsealed	sealed with	<u>Spoxy</u> Floor	Contry			
f. Foundation walls:	poured block	stone	other					
g. Foundation walls:	unsealed	sealed sealed	with Pain					
h. The basement is:	wet	damp	dry	moldy				
i. The basement is:	finished	unfinished	partially finish	ned				
j. Sump present?	Ý N							
k. Water in sump?	Y /N/ not ap	oplicable						
Basement/Lowest level depth below grade: <u>20</u> (feet) Tink room Sump Room it self off below grade. Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)								
Identify potential soil vapor	entry points and	d approximate s	ize (e.g., cracks	, utility ports, drains)				
Identify potential soil vapor	entry points and	n it self d approximate s FIONING (Circl	e all that apply)	, utility ports, drains)				
Identify potential soil vapor 6. HEATING, VENTING an Type of heating system(s) us	entry points and d AIR CONDI ed in this buildi	TIONING (Circl	ize (e.g., cracks e all that apply) at apply – note	primary)				
Identify potential soil vapor 6. HEATING, VENTING and Type of heating system(s) us Hot air circulation Space Heaters Electric baseboard	entry points and d AIR CONDI ed in this buildi Heat pump n radiation Wood stove	TIONING (Circl ing: (circle all th Hot w Radiant floor Outdo	e all that apply) at apply – note ater baseboard or wood boiler	primary)				
Identify potential soil vapor 6. HEATING, VENTING an Type of heating system(s) us Hot air circulation Space Heaters Electric baseboard The primary type of fuel use	d AIR CONDI d AIR CONDI ed in this buildi Heat pump n radiation Wood stove d is:	FIONING (Circl ing: (circle all th Hot w Radiant floor Outdo	ize (e.g., cracks at apply – note ater baseboard for wood boiler	primary) Other				
Identify potential soil vapor 6. HEATING, VENTING an Type of heating system(s) us Hot air circulation Space Heaters Electric baseboard The primary type of fuel use Natural Gas Electric Wood Coal Domestic het water terms for	entry points and d AIR CONDIT ed in this buildi Heat pump n radiation Wood stove d is: Fuel Oil Propane	TIONING (Circl ing: (circle all th Hot w Radiant floor Outdo Kerose Solar	ize (e.g., cracks e all that apply) at apply – note ater baseboard or wood boiler ene	primary)				
Identify potential soil vapor 6. HEATING, VENTING and Type of heating system(s) us Hot air circulation Space Heaters Electric baseboard The primary type of fuel use Natural Gas Electric Wood Coal Domestic hot water tank fue Boiler/furnace located in:	entry points and d AIR CONDIT ed in this buildi Heat pump n radiation Wood stove d is: Fuel Oil Propane led by:S	TIONING (Circling: (circle all the Hot we Radiant floor Outdoors)	te all that apply) at apply – note ater baseboard or wood boiler ene Main Floor	primary) Other				

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Are there air distribution ducts present?

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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.

Building	has no supplied air duck	bok duct work only						
fan.	physis in the tank roo	m from a weall						
7. OCCUPANCY Work area & Storage								
Is basement/lowest level occupied? Full-time Ccasionally Seldom Almost Never Ho								
Level	General Use of Each Floor (e.g., familyroom,	bedroom, laundry, workshop, storage)						
Basement	Electrice room, Jank Room,	Compactor Room 1/3, 2/3 residentiat						
1st Floor -B	Residential							
2nd Floor								
3rd Floor								
4th Floor								
8. FACTORS	THAT MAY INFLUENCE INDOOR AIR QU	ALITY						
a. Is there an a	attached garage?	Y/N						
b. Does the ga	rage have a separate heating unit?	Y/N/						
c. Are petroleu stored in the	m-powered machines or vehicles e garage (e.g., lawnmower, atv, car)	Y / N / NA Please specify						
d. Has the buil	ding ever had a fire?	Y / 10 When?						
e. Is a kerosen	e or unvented gas space heater present?	Y / NWhere?						
f. Is there a wo	orkshop or hobby/craft area? Y / 🔊	Where & Type?						
g. Is there smo	king in the building?	Y / N How frequently?						
h. Have cleani	ng products been used recently?	W/N When & Type?						
i. Have cosmet	ic products been used recently?	Y / N When & Type?						

Page	5	
j. Has painting/staining been done in the last 6 months?	Y / Where	& When?
k. Is there new carpet, drapes or other textiles?	Y/ N Where	& When?
l. Have air fresheners been used recently?	N N	When & Type? Disries ise-
m. Is there a kitchen exhaust fan?	Y 🔊	If yes, where vented?
n. Is there a bathroom exhaust fan?	Y /🕲	If yes, where vented?
o. Is there a clothes dryer?	Y / 🕅	If yes, is it vented outside? Y / N
p. Has there been a pesticide application?	Y/N	When & Type?
Are there odors in the building?		
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic boiler mechanic, pesticide application, cosmetologist	or auto body sho	p, painting, fuel oil delivery,
If yes, what types of solvents are used? House	hold cl	Quiners
If yes, are their clothes washed at work?	Y/N	
Do any of the building occupants regularly use or work response)	at a dry-cleanin	g service? (Circle appropriate
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) U Yes, work at a dry-cleaning service	No	
Is there a radon mitigation system for the building/struct Is the system active or passive? Active/Passive	cture? Y /NDat	e of Installation: <u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>
9. WATER AND SEWAGE		
Water Supply: Public Water Drilled Well Drilled Well Sewage Disposal: Public Sewer Septic Tank	riven Well Leach Fiel	Dug Well Other: d Dry Well Other:
10. RELOCATION INFORMATION (for oil spill reside	ential emergenc	y)
a. Provide reasons why relocation is recommended:	NA	-
b. Residents choose to: remain in home relocate to	friends/family	relocate to hotel/motel
c. Responsibility for costs associated with reimbursement	nt explained?	Y / N
d. Relocation package provided and explained to reside	nts?	Y / N

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11. FLOOR PLANS

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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.



12. OUTDOOR PLOT

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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

3

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>
No chemica	ls				
Su photo	- log				
	-				

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

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

178 Avenue D

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

Preparer's Name	Robert Arni	old	_Date/Time Prepared	30/19 09:00
Preparer's Affiliation	ARCADIS		Phone No. (631) 391	-5223
Purpose of Investigation	on Indoer	Air Samplin	9	<u> </u>
1. OCCUPANT	:			
Interviewed: Y / N				
Last Name:		First Name:		5.
Address:				-0
County:				
Home Phone:		Office Phone:		
Number of Occupants/	persons at this loo	cation Age o	f Occupants	
2. OWNER OR LAN	DLORD: (Check	t if same as occupant _)	
Interviewed: Y / N				
Last Name: Colly	nore	First Name:5	shawn	
Address: 454	East lo)th Street		
County: Manhatta	n			
Home Phone:		Office Phone: 2/2	-228-2400	
3. BUILDING CHAR	ACTERISTICS	•		
Type of Building: (Ci	rcle appropriate r	esponse)		
Residential Industrial	School Church	Commercial/Multi-u Other:	se	

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

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Ranch2-Family3-FamilyRaisedRanch SplitLevel ColonialCape CodContemporaryMobile HomeDuplexApartment HouseTownhouses/CondosModularLog HomeOther:
If multiple units, how many? 104
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 3 Building age ~ 70 yrs
Is the building insulated? ()/ 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 None. Only from doors & windows. Compactor has gis supply There are I fans a openings in the conservat.
Airflow near source Fan in tank from. Openings in the storage woon for airing.
Outdoor air infiltration For 20 openings in busement. Open dir bols in walle
Infiltration into air ducts MA- No air duct In Mu building absenced.

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5. BASEMENT AND CONS	TRUCTION C	HARACTERIS	FICS (Circle all	that apply)
a. Above grade construction	: wood frame	concrete	stone	brick
b. Basement type:		crawlspace	slab	other
c. Basement floor:	concrete	dirt	stone	other
d. Basement floor:	uncovered	covered	covered with	
e. Concrete floor:	unsea	iled sealed	sealed with	
f. Foundation walls:	poured block	stone	other	
g. Foundation walls:	unsealed	sealed sealed	with <u>pant</u>	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finish	ned
j. Sump present?	(¥)/N	[Sump in	1 tank roum	7
k. Water in sump?	Y / N / not ap	oplicable Cou	ild not access	s tank room
Basement/Lowest level depth	below grade:	20 (feet)		
Identify potential soil vapor Earthen floor in cran	entry points an	d approximates monete floors	ize (e.g., cracks Seem to he.	, utility ports, drains)
Drains				
6. HEATING, VENTING and	d AIR CONDI	FIONING (Circl	e all that apply)	
Type of heating system(s) use	ed in this buildi	ng: (circle all th	at apply – note	primary)
Hot air circulation Space Heaters Electric baseboard	Heat pump n radiation Wood stove	Hot w Radiant floor Outdo	ater baseboard	Other
The primary type of fuel used	d is:			
Natural Gas Electric Wood Coal	Fuel Oil Propane	Kerose Solar	ene	
Domestic hot water tank fuel	ed by:	feam		_
Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other Steam Piped In
Air conditioning:	Central Air	Window units	Open Window	s None

Y (N

Are there air distribution ducts present?

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

No Due	+ work present ' Small vent	s and fars creq.	fe
air ex	Change		
<u></u>			
7. OCCUPAN	CY	Warkers	
Is basement/lo	west level occupied? Full-time Occ	asionally Seldom Al	most Never
Level	General Use of Each Floor (e.g., familyroo	m, bedroom, laundry, works	10p, storage)
Basement	Meter room compactor room	1 tern room	
1st Floor - 3	Residences		
2nd Floor	Residence s		
3rd Floor	Residences		
4th Floor	Residences		
8. FACTORS	THAT MAY INFLUENCE INDOOR AIR (UALITY	
a. Is there an a	ttached garage?	Y /(Ñ)	
b. Does the gai	age have a separate heating unit?	Y/N/NA)	
c. Are petroleu stored in the	m-powered machines or vehicles garage (e.g., lawnmower, atv, car)	Y / N /NA Please specify	
l. Has the buil	ding ever had a fire?	Y /NWhen?	
. Is a kerosene	e or unvented gas space heater present?	Y (NWhere?	
. Is there a wo	rkshop or hobby/craft area? Y) Where & Type?	
. Is there smol	king in the building?	Y N How frequently?	euple Still Do
. Have cleanin	g products been used recently?	√ / N When & Type?	ally
. Have cosmeti	c products been used recently?	Y/ When & Type? Po	ssibly from reside

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j. Has painting/staining been done in the last 6 months? Y / \widehat{W} Where &	2 When?								
k. Is there new carpet, drapes or other textiles? Y /N Where &	z When?								
I. Have air fresheners been used recently? $(X / N - V)$	When & Type?								
m. Is there a kitchen exhaust fan? Y $\widehat{\mathbb{N}}$	If yes, where vented?								
n. Is there a bathroom exhaust fan? Y / 🕅 🛛	If yes, where vented?								
o. Is there a clothes dryer? Y	If yes, is it vented outside? Y / N								
p. Has there been a pesticide application? Y/\widehat{W}	When & Type?								
Are there odors in the building? If yes, please describe:	possible urine								
Do any of the building occupants use solvents at work? ($\hat{\mathbb{O}}/\mathbb{N}$ (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, boiler mechanic, pesticide application, cosmetologist	painting, fuel oil delivery,								
If yes, what types of solvents are used? Household Cleener	2								
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									
Is there a radon mitigation system for the building/structure? Y / N Date of Is the system active or passive? Active/Passive	of Installation:								
9. WATER AND SEWAGE									
Water Supply: Public Water Drilled Well Driven Well Sewage Disposal: Public Sewer Septic Tank Leach Field	Dug Well Other: 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								
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178 Ave. D.

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.



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12. OUTDOOR PLOT

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

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

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13. PRODUCT INVENTORY 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 D	escription	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** <u>Y/N</u>
	NO	CHEMI	CALS	IDENT!	FIED		
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			(
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	0						
				1			
						-	
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* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)** ** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

170 Avenue ()

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	Pylan	Corbett	_ Date/Time Prepared 10 30/19					
Preparer's Affiliation	Arcad	is	Phone No. <u>631-391-5203</u>					
Purpose of Investigation	on Fndo	or Air Sampl	ling					
1. OCCUPANT	:		0					
Interviewed: Y (N)								
Last Name:		First Name:						
Address:								
County:								
Home Phone:		Office Phone:						
Number of Occupants/	persons at this	s location Age	of Occupants					
2. OWNER OR LAN	DLORD: (Ch	eck if same as occupant)					
Interviewed: Y / N								
Last Name:	gnore	First Name:	Shawn					
Address: 459	. Lag+	10th Street						
County: Marhat	tan							
Home Phone:		Office Phone: 212	- 228-2400					
3. BUILDING CHARACTERISTICS								
Type of Building: (Cir	rcle appropria	te response)						
Residential Industrial	School Church	Commercial/Multi-u Other:	ISC					

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

Ranch	2-Family	3-Family								
Raised	Ranch Split	Level Colonial								
Cape Cod	Contemporar	y Mobile Home								
Duplex	Apartment House	Townhouses/Condos								
Modular	Log Home	Other:								
If multiple u	inits, how many?	104 RA)								
If the prope	rty is commercial, type?									
Business Typ	Business Type(s)									
Does it inclu	de residences (i.e., multi-	use)? N If yes, how many? <u>10 4</u>								
Other chara	cteristics:									
Number of fl	oors 13	Building age 42								
Is the buildin	g insulated? Y N	How air tight? Tight/ Average / Not Tight								
4. AIRFLOV	W									
Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:										
Airflow betw	en floors	apen of gops in piping of stairwell								

Airflow near source cabinet room and TANK room vents in

Outdoor air infiltration Fan in tank room for venting

Infiltration into air ducts

Ducts in ground floor NO Air

5. BASEMENT AND CON	STRUCTION C	HARACTERIS	FICS (Circle all	that apply)
a. Above grade construction	on: wood frame	concréte	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:	unsea	aled sealed	sealed with	
f. Foundation walls:	poured block	stone	other	
g. Foundation walls:	unsealed	sealed sealed	with	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finis	ned
j. Sump present?	(y / N	Tank 100	m	
k. Water in sump?	🔗 / N / not aj	pplicable		
6 HEATING VENTING	and AIP CONDI	TIONING (Circl	a all that apply	
Type of heating system(s) u Hot air circulation Space Heaters Electric baseboard	Heat pump am radiation Wood stove	ing: (circle all th Hot w Radiant floor Outdo	at apply – note ater baseboard or wood boiler	primary) Other
The primary type of fuel u	sed is:			
Natural Gas Electric Wood Coa	Fuel Oil Propane 1	Keros Solar	ene	
Domestic hot water tank fu	eled by: 5+	eam		
Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other Steum filld
Air conditioning:	Central Air	Window units) Open Window	vs None

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Are there air distribution ducts present?

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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.

YN

pian diagram.	N/A - no supplied a	ir to building except for	
	small ventilation ve	ints in well (beservent)	
7. OCCUPANCY		maintenance staff	
Is basement/lowest l	evel occupied? Full-time Occ	casionally Seldom Almost Never	
Level Gen	eral Use of Each Floor (e.g., familyroo	om, bedroom, laundry, workshop, storage)	
Basement	compactor room, Tan	KROOM, Storage, Tank to	<i>ii</i> n
1 st Floor	residences		
2nd Floor	1 chidences		
3rd Floor	1esidences		
4th Floor	10 Sidenley		
8. FACTORS THAT	T MAY INFLUENCE INDOOR AIR	QUALITY	
a. Is there an attach	ed garage?	YN	
b. Does the garage h	ave a separate heating unit?	Y/N/NA	
c. Are petroleum-po stored in the gara	wered machines or vehicles ge (e.g., lawnmower, atv, car)	Y / N / NA Please specify	
d. Has the building	ever had a fire?	Y (NWhen?	
e. Is a kerosene or u	nvented gas space heater present?	Y /N Where?	
f. Is there a worksho	op or hobby/craft area? Y /	N Where & Type?	
g. Is there smoking	in the building?	Y (N How frequently? Can half	en
h. Have cleaning pro	oducts been used recently?	Y/N When & Type?	-
i. Have cosmetic pro	oducts been used recently?	YN When & Type? Ast on ge	evel

Page 5									
j. Has painting/staining been done in the last 6 months?	N Where & V	When?							
k. Is there new carpet, drapes or other textiles?	Y / NWhere & V	When?							
I. Have air fresheners been used recently?	Y/N WI	hen & Type?							
m. Is there a kitchen exhaust fan?	Y/N If	yes, where vented?							
n. Is there a bathroom exhaust fan?	Y/N If	yes, where vented?							
o. Is there a clothes dryer?	Y/N If	yes, is it vented outside? Y / N							
p. Has there been a pesticide application?	Y/W W	hen & Type?							
Are there odors in the building?									
Do any of the building occupants use solvents at work? ∂ / 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?	1 Golvents	!							
If yes, are their clothes washed at work?	W/N								
Do any of the building occupants regularly use or work at response)	a dry-cleaning se	ervice? (Circle appropriate							
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	No								
Is there a radon mitigation system for the building/structu Is the system active or passive? Active/Passive	re? Y / N Date of	Installation:							
9. WATER AND SEWAGE									
Water Supply: Sewage Disposal: Public Water Drilled Well Driv	en Well Leach Field	Dug Well Other: Dry Well Other:							
10. RELOCATION INFORMATION (for oil spill resident	tial emergency)								
a. Provide reasons why relocation is recommended:	NA								
b. Residents choose to: remain in home relocate to fr	iends/family	relocate to hotel/motel							
c. Responsibility for costs associated with reimbursement	explained?	YN							
d. Relocation package provided and explained to residents	:?	Y /N							

*

270 Ave. 0

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.



12. OUTDOOR PLOT

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

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

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13. PRODUCT INVENTORY 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>
4	None					
2	JUON					
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* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D) ** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

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

Bldg. 1115

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

Preparer's Name Albina Redrepagic Date/Time Prepared 10/31/2019
Preparer's Affiliation Arcadis U.S. Inc. Phone No. 212-365-4651
Purpose of Investigation Indoor Air Sampling
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)
Interviewed: 1/ N
Last Name: <u>Harrison</u> First Name: Lorance Lawrence
Address: 152 Scott Str.
County: H Wilkes Barre, PA 18702
Home Phone: Office Phone: 570-32-8-57-8-6
3. BUILDING CHARACTERISTICS
Type of Building: (Circle appropriate response)

Residential Industrial

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School Church Commercial/Multi-use
Other: _____

If the property is residential, type? (C	fircle appropriate response)
Ranch2-FamilyRaisedRanch SplitCape CodContemporaryDuplexApartment HouseModularLog Home	3-Family Level Colonial Mobile Home Townhouses/Condos Other:
If multiple units, how many? $\underline{13 \times 9}$	5 =104
If the property is commercial, type?	
Business Type(s)	s
Does it include residences (i.e., multi-us	e)? Y / N If yes, how many?
Other characteristics:	
Number of floors 13	Building age 70 yer
Is the building insulated? \widetilde{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	
Airflow near source	
Outdoor air infiltration	
Infiltration into air ducts	

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5. BASEMENT AND CONST	FRUCTION C	HARACTERIST	TICS (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	eovered	covered with	Concret
e. Concrete floor:	unsea	led 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 finisl	ned
j. Sump present?	Ŷ/N			
k. Water in sump?	Y N / not ap	plicable		
Basement/Lowest level depth	below grade:	(feet)	zo (o g aroaks	utility ports drains)
6. HEATING, VENTING and	AIR CONDIT	'IONING (Circle	all that apply)	
Type of heating system(s) use	d in this buildi	ng: (circle all tha	nt apply – note	primary)
Hot air circulation Space Heaters Stream Electric baseboard	Heat pump radiation Wood stove	Hot wa Radiant floor Outdoo	ter baseboard or wood boiler	Other
The primary type of fuel used	l is:			
Natural Gas Electric Wood Coal	Fuel Oil Propane	Kerose Solar	ne	
Domestic hot water tank fuele	ed by:	ean		
Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other
Air conditioning:	Central Air	Window units	Open Window	rs None

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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 Occas	sionally Seldom Almost Never
Level General Use of Each Floor (e.g., familyroon	n, bedroom, laundry, workshop, storage)
Basement Starage	
1st Floor - 13 Residential	
2nd Floor	
3rd Floor	
4th Floor	
8. FACTORS THAT MAY INFLUENCE INDOOR AIR Q	UALITY
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? dutside door
h. Have cleaning products been used recently?	Y/N When & Type?
i. Have cosmetic products been used recently?	Y N When & Type?

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j. Has painting/staining been done in the last 6 months?	Y N Where	& When?	
k. Is there new carpet, drapes or other textiles?	Y /N Where	& When?	
l. Have air fresheners been used recently?	(y) N	When & Type?	-
m. Is there a kitchen exhaust fan?	YN	If yes, where vented?	
n. Is there a bathroom exhaust fan?	Y 🔊	If yes, where vented?	
o. Is there a clothes dryer?	YN	If yes, is it vented outside? Y / N	
p. Has there been a pesticide application?	Y/N	When & Type?	_
Are there odors in the building? If yes, please describe: <u>Cleaning Liquids</u>	wet ai	1 /compreter-garb	nge
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic of boiler mechanic, pesticide application, cosmetologist	(V)/ N or auto body shop	o, painting, fuel oil delivery,	
If yes, what types of solvents are used? Cleaning	Sapplie	5	
If yes, are their clothes washed at work?	Y/N		
Do any of the building occupants regularly use or work a response)	t a dry-cleaning	service? (Circle appropriate	
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Unk Yes, work at a dry-cleaning service	No		
Is there a radon mitigation system for the building/structure Is the system active or passive? Active/Passive	ure? Y N Date	of Installation:	
9. WATER AND SEWAGE			
Water Supply: Sewage Disposal: Public Water Drilled Well Driv Public Sewer Septic Tank	ven Well Leach Field	Dug Well Other: Dry Well Other:	-
10. RELOCATION INFORMATION (for oil spill residen	tial emergency))	
a. Provide reasons why relocation is recommended:			
b. Residents choose to: remain in home relocate to fi	riends/family	relocate to hotel/motel	
c. Responsibility for costs associated with reimbursement	explained?	Y / N	
d. Relocation package provided and explained to resident	s?	Y / N	

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11. FLOOR PLANS

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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.



12. OUTDOOR PLOT

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

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

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13. PRODUCT INVENTORY FORM

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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.

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.

This form must be et			. III III III III III III III III III I
Preparer's Name 🥖	Albina Red	repagic	Date/Time Prepared/1/1/19 / 10: 45
Preparer's Affiliation	n Acadis	s U.S., Inc	Phone No. 212-365-4651
Purpose of Investiga	tion J	dior Air	Sampling
1. OCCUPAN	Т:		
Interviewed: Y / N	2		
Last Name:		First Name:	
Address:			
County:			
Home Phone:		Office Phone:	
Number of Occupant	ts/persons at this	s location Ag	ge of Occupants
2. OWNER OR LA	NDLORD: (Ch	eck if same as occupa	pant)
Interviewed: 🔗 / N			
Last Name: Har	ก่รอก	First Name:	Lawrence
Address:	52 5	eath street	
County: Coilkin	s'Barre p	A 18702	
Home Phone:		Office Phone:	570-328 - 578L
3. BUILDING CHA	ARACTERIST	ICS	
Type of Building: (Circle appropria	te response)	
Residential	School Church	Commercial/Mu Other:	ılti-use

If the property is residential, type? (Circle appropriate the second sec	ate response)
Ranch2-Family3-FamilyRaisedRanch SplitLevel ColonCape CodContemporaryMobile HomDuplexApartment HouseTownhousesModularLog HomeOthe	ial e 'Condos r:
If multiple units, how many? <u>48</u>	
If the property is commercial, type?	
Business Type(s)	
Does it include residences (i.e., multi-use)? V / N If	
Other characteristics:	, now many?
Number of floors 6 Building ago	VO UR OS
Is the building insulated (V) N How or tick was	r - yais
4. AIRFLOW	light / Average / Not Tight
Use air current tubes or tracer and	
Airflow between floors	low patterns and qualitatively describe:
Airflow near source Air shafts, openings in the wal	1, Jans, doors & windows
Outdoor air infiltration Open Window; Fins, Open air st	afts in the wells.
Infiltration into air ducts	

035911807 Appendix A.doc

5. BASEMENT AND CONS	STRUCTION CHARACTERI	STICS (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 stor	e other	
g. Foundation walls:	unsealed seal	ed with	
h. The basement is:	wet damp	dry	moldy
i. The basement is:	finished unfinished	partially finis	hed
j. Sump present?	y /N		
k. Water in sump?	\mathbf{Y} /N/not applicable		
Basement/Lowest level dept	h below grade:(feet)		
Identify potential soil vapor 20% 2 floor 's potential soil Va	entry points and approximate coverd w/ dift. per intrusion point/	Holand	s, utility ports, drains)
6. HEATING, VENTING an	d AIR CONDITIONING (Cir	cle all that apply)	
Type of heating system(s) us	ed in this building: (circle all	that apply – note	primary)
Hot air circulation Space Heaters Stream Electric baseboard	Heat pump Hot m radiation Radiant floo Wood stove Out	water baseboard r loor wood boiler	Other
The primary type of fuel use	ed is:		
Natural Gas Electric Wood Coal	Fuel Oil Kero Propane Sola	osene r	
Domestic hot water tank fue	led by: <u>Skam</u>	ē	
Boiler/furnace located in:	Basement Outdoors	Main Floor	Other Separte Buildy
			· · · · · · · · · · · · · · · · · · ·

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Are there air distribution ducts present?

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

No air return/supply ductosork.	
7. OCCUPANCY	
Is basement/lowest level occupied? Full-time Occasie	onally Seldom Almost Never
Level General Use of Each Floor (e.g., familyroom,	bedroom, laundry, workshop, storage)
Basement Compados room, Tank room, Ele	chic room, Storage
1st Floor - 6th Residutial	
2nd Floor	
3rd Floor	
4th Floor	
8. FACTORS THAT MAY INFLUENCE INDOOR AIR QU	ALITY
a. Is there an attached garage?	Y/X
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 / NWhen?
e. Is a kerosene or unvented gas space heater present?	Y / NWhere?
f. Is there a workshop or hobby/craft area? Y / 🕅	Where & Type?
g. Is there smoking in the building?	Y /N How frequently?
h. Have cleaning products been used recently?	Y /N When & Type?
i. Have cosmetic products been used recently?	Y (N) When & Type?

Page 5
j. Has painting/staining been done in the last 6 months? Y / 🕅 Where & When?
k. Is there new carpet, drapes or other textiles? Y / N Where & When?
I. Have air fresheners been used recently? (\dot{Y}/N) When & Type? In comparison
m. Is there a kitchen exhaust fan? Y / N If yes, where vented?
n. Is there a bathroom exhaust fan? Y/N If yes, where vented?
o. Is there a clothes dryer? Y/N If yes, is it vented outside? Y/N
p. Has there been a pesticide application? (Y/N) When & Type? The past Gments
Are there odors in the building? (P/N If yes, please describe: <u>Serves</u> , Roclant, garbage, Musty, All are strong
Do any of the building occupants use solvents at work? $\widehat{\mathbb{O}}/\mathbb{N}$ (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist
If yes, what types of solvents are used?
If yes, are their clothes washed at work? Y/N
Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service
Is there a radon mitigation system for the building/structure? Y / NDate of Installation:
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.





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12. OUTDOOR PLOT

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

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

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