

**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

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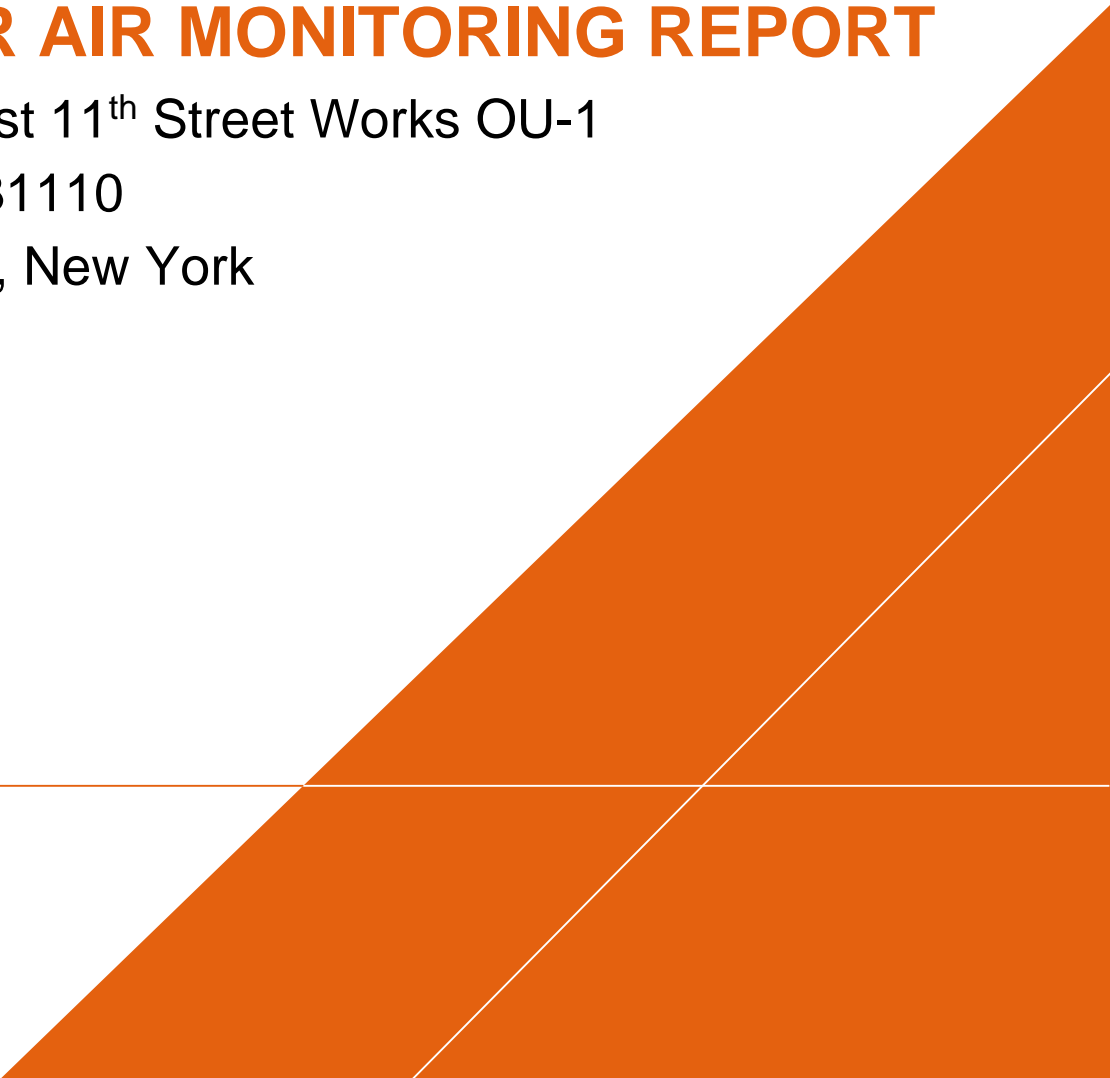
INTERIM SITE MANAGEMENT PLAN – INDOOR AIR MONITORING REPORT

Former East 11th Street Works OU-1

Site No. 231110

Manhattan, New York

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A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It is oriented with its hypotenuse running from the bottom left towards the top right. A thin white line runs diagonally across the shape, parallel to its hypotenuse. A thin white horizontal line also crosses the shape, positioned roughly in the middle of its height.

INDOOR AIR MONITORING REPORT

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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	<i>Interim Site Management Plan for Indoor Air Monitoring</i>
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

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 thiophene 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

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 1,4-dichlorobenzene, 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: Date Collected:	NYSDOH Fuel Oil Heat - Indoor Air Upper Fence	USEPA BASE Guidance Values 90th Percentile		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
			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-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	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	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	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2-Trichlorotrifluoroethane	2.5	--	ug/m3	0.56 J	0.56 J	0.54 J	0.53 J	0.51 J	0.57 J	0.53 J	0.56 J	0.53 J	0.55 J	0.56 J	0.52 J	0.55 J	0.54 J	0.53 J [0.56 J]	0.55 J [0.53 J]	0.55 J	0.56 J	0.51 J	0.54 J	0.54 J	0.53 J
1,1-Dichloroethane	0.38	0.7	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U [0.32 U]	0.034 J [0.039 J]	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
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	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	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	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	0.12 J	0.12 J	0.12 J	0.12 J	0.13 J	0.12 J	0.13 J	0.12 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	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	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	0.35 U	0.35 U	0.35 U	0.35 U
1,3-Dichlorobenzene	0.46	2.4	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	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	1.2	5.5	ug/m3	0.13 J	0.48 U	0.17 J	0.48 U	4.0	0.37 J	1.5	0.29 J	4.9	4.7	3.2	0.27 J	0.24 J	0.35 J	0.48 U [0.48 U]	1.4 [0.29 J]	0.51	0.48 U	0.55	0.39 J	1.8	0.19 J
1,4-Dioxane	--	--	ug/m3	0.22 J	2.6	0.13 J	0.72 U	0.72 U	0.12 J	0.22 J	0.72 U	0.72 U	0.72 U	0.72 U	0.30 J	0.19 J	0.72 U	0.20 J [0.72 U]	0.18 J [0.72 U]	0.13 J	0.72 U	0.72 U	0.13 J	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	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
Bromoform	--	--	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
Bromomethane	0.48	1.7	ug/m3	0.31 U	0.31 U	0.31 U	0.31 U	0.088 J	0.31 U	0.31 U	0.088 J	0.31 U	0.087 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U [0.31 U]	0.34 [0.20 J]	0.086 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Carbon Disulfide	--	4.2	ug/m3	0.21 J	0.17 J	1.1	0.035 J	0.14 J	0.45 J	0.87	0.74	1.7	0.59 J	0.27 J	0.22 J	0.098 J	0.11 J	0.041 J [0.62 U]	0.28 J [0.16 J]	0.39 J	0.14 J	0.23 J	0.42 J	0.99	0.12 J
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	0.58	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]	0.37 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	0.21 U	0.21 U	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	0.21 U	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	0.16 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	0.16 U	0.041 J	0.39
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	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	0.68 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
Ethylbenzene	6.4	5.7	ug/m3	0.51	0.23 J	0.22 J	0.14 J	0.32 J	0.29 J	0.27 J	0.23 J	0.38	0.40	0.41	0.35	0.17 J	0.70	0.15 J [0.11 J]	0.41 [0.70]	0.36	0.85	0.65	3.0	1.3	0.51
Hexachlorobutadiene	0.49	6.8	ug/m3	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U [0.85 U]	0.85 U [0.85 U]	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
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	ug/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	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														

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

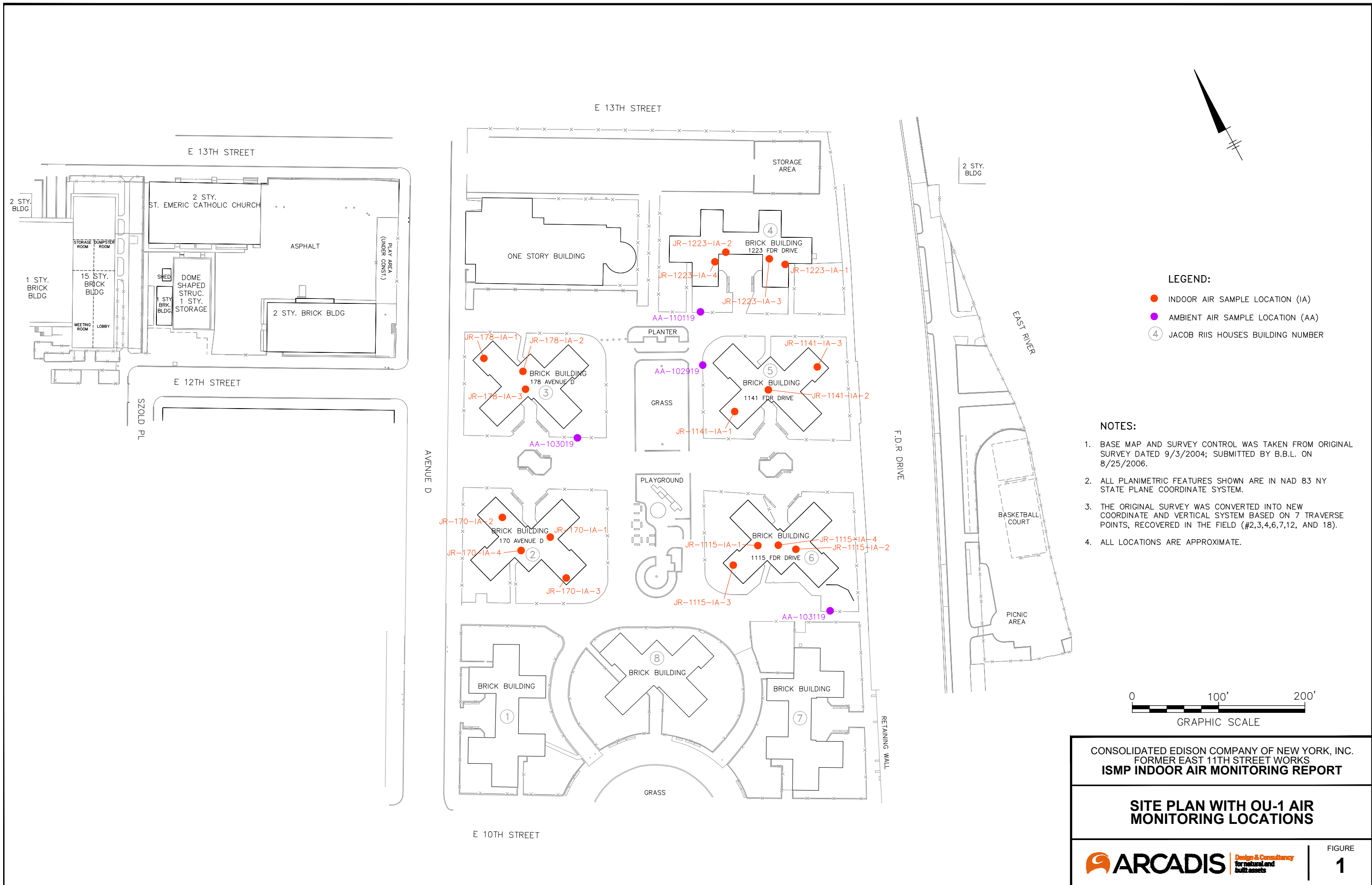
Location ID: Date Collected:	NYSDOH Fuel Oil Heat - Indoor Air Upper Fence	USEPA BASE Guidance Values 90th Percentile		AA-102919 10/29/19	AA-103019 10/30/19	AA-103119 10/31/19	AA-110119 11/01/19	JR-1115-IA-1 10/31/19	JR-1115-IA-2 10/31/19	JR-1115-IA-3 10/31/19	JR-1115-IA-4 10/31/19	JR-1141-IA-1 10/29/19	JR-1141-IA-2 10/29/19	JR-1141-IA-3 10/29/19	JR-1223-IA-1 11/01/19	JR-1223-IA-2 11/01/19	JR-1223-IA-3 11/01/19	JR-1223-IA-4 11/01/19	JR-170-IA-1 10/31/19	JR-170-IA-2 10/31/19	JR-170-IA-3 10/30/19	JR-170-IA-4 10/30/19	JR-178-IA-1 10/30/19	JR-178-IA-2 10/30/19	JR-178-IA-3 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	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 [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	
Thiophene	--	--	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]	0.28 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	0.79 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 YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

Bldg # 1141

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

Preparer's Name Albina Rodzepakic Date/Time Prepared 10/29/2019 9:30am

Preparer's Affiliation Arcadis 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: ☒ Y / ☐ N Matrnan Manager

Last Name: Collymore First Name: Shawn

Address: 454 East 10th Str.

County: Manhattan

Home Phone: _____ Office Phone: 212-228-2400

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	<u>Apartment House</u>	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 13 Building age 70 yrs (1949)

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

None, No vertical air flow in design. Possible air flow through gaps in piping, compactor Room trash ~~can~~ chute, or elevator shaft.

Airflow near source

Fan in the tank room, on during testing.
Gaps between the door & frame.

Outdoor air infiltration

Through fan air exchange & doors opening & closing.

Infiltration into air ducts

No 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: unsealed sealed sealed with Epoxy Floor Coating
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with Paint
- 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: 20 (feet) Tank room Sump

Room itself 4ft below grade.
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 Heat pump Hot water baseboard
Space Heaters Steam radiation Radiant floor
Electric baseboard Wood stove Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas Fuel Oil Kerosene
Electric Propane Solar
Wood Coal

Domestic hot water tank fueled by: Steam

Boiler/furnace located in: Basement Outdoors Main Floor Other Steam Piped in

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.

Building has no supplied air ductwork, only air supply is in the tank room from a wall fan.

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

~~Occasionally~~

Seldom

Work area & Storage
Almost Never ^{No occupancy}

Level

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

Basement

Electric room, Tank Room, Compactor Room 1/3, 2/3 ^{Cray/space} Residential

1st Floor ^{to}

Residential

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y / ☒ N

b. Does the garage have a separate heating unit?

Y / N / ☒ NA

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

Y / N / ☒ NA

Please specify _____

d. Has the building ever had a fire?

Y / ☒ N When? _____

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

Y / ☒ N Where? _____

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

Y / ☒ N Where & Type? _____

g. Is there smoking in the building?

Y / ☒ N How frequently? _____

h. Have cleaning products been used recently?

☒ Y / N When & Type? Daily

i. Have cosmetic products been used recently?

Y / ☒ N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / ☒ N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / ☒ N Where & When? _____
- l. Have air fresheners been used recently? ☒ Y N When & Type? Diodesise
- m. Is there a kitchen exhaust fan? Y / ☒ N If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / ☒ N If yes, where vented? _____
- o. Is there a clothes dryer? Y / ☒ N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / ☒ N When & Type? _____

Are there odors in the building? ☒ Y N

If yes, please describe: Cleaning products

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? Household cleaners

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

Is there a radon mitigation system for the building/structure? Y / ☒ N Date of Installation: N/A

Is the system active or passive? Active/Passive N/A

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: _____

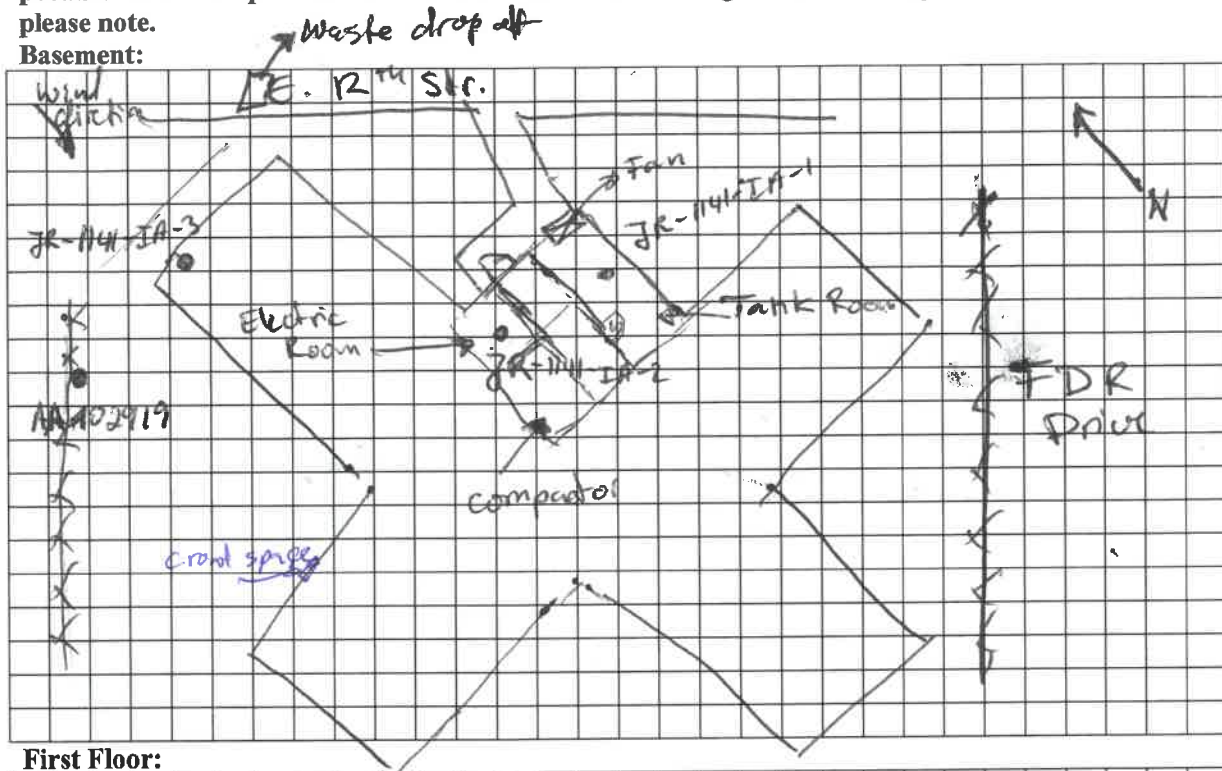
10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: N/A
- 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

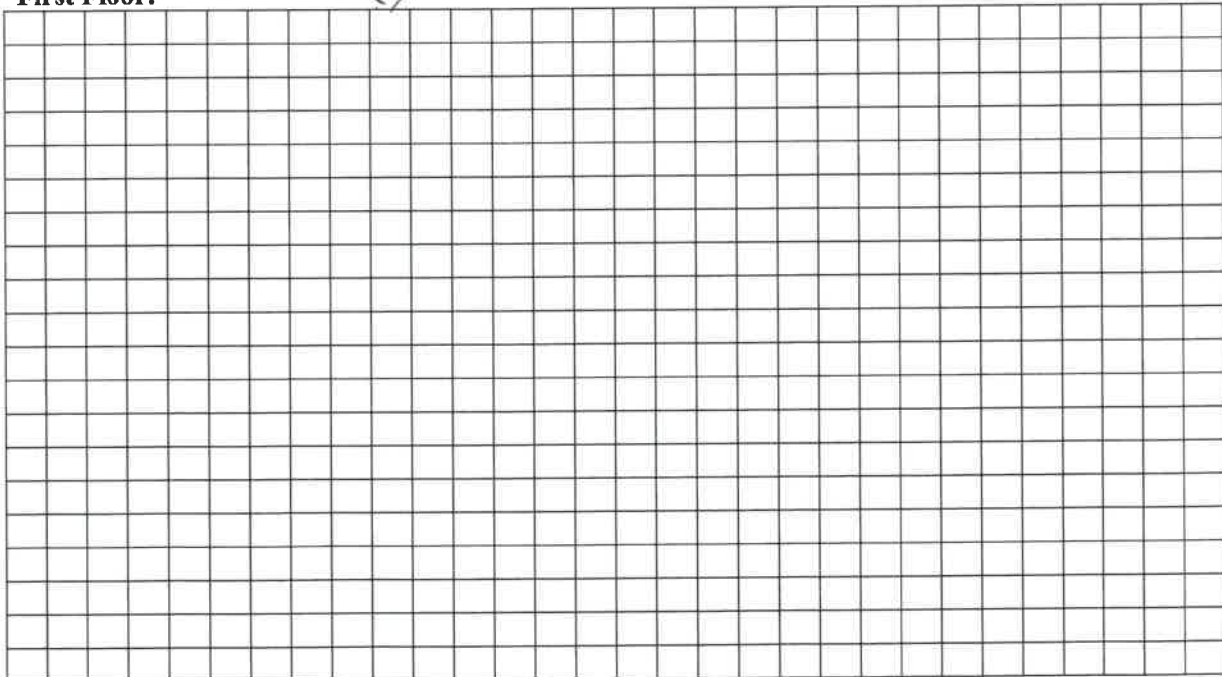
11. FLOOR PLANS

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:



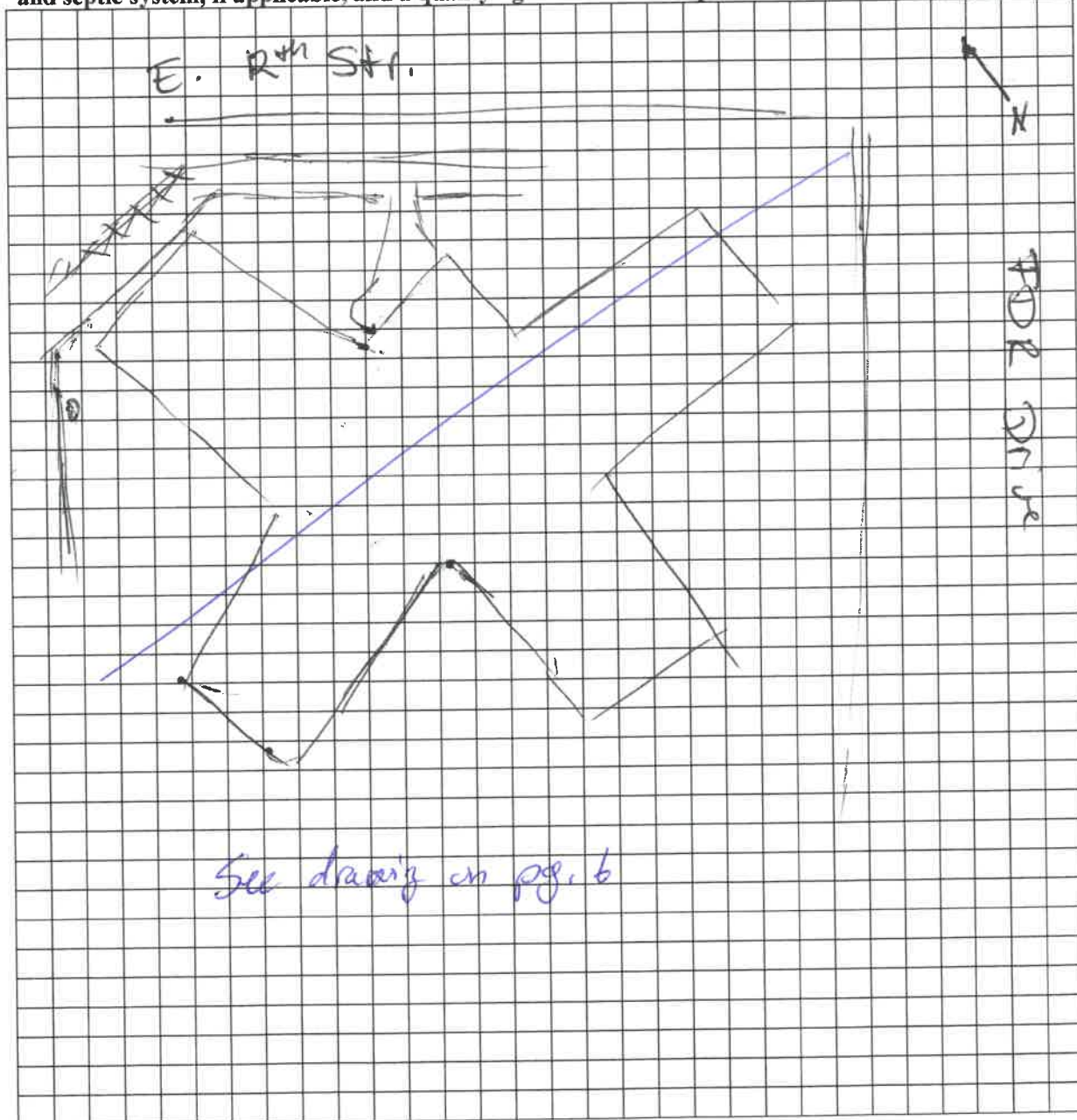
First Floor:



12. OUTDOOR PLOT

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

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



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

[illegible]

* 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.

178 Avenue D

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 Robert Arnold Date/Time Prepared 10/30/19 09:00

Preparer's Affiliation ARCADIS Phone No. (631) 391-5223

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: Y / N

Last Name: Collins First Name: Shawn

Address: 454 East 10th Street

County: Manhattan

Home Phone: _____ Office Phone: 212-228-2406

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	<u>Apartment House</u>	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 104

If the property is commercial, type?

Business Type(s) NA

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

Other characteristics:

Number of floors 13

Building age ~70 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
None. Only from doors & windows. Compactor has air supply.
There are 1 fans & openings in the basement.

Airflow near source
Fan in tank room. openings in the storage room for
airing.

Outdoor air infiltration
Few & openings in basement. Open air holes in walls.

Infiltration into air ducts
NA - No air duct in the building observed.

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: RA 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 paint
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y/N [Sump in tank room]
- k. Water in sump? Y / N / not applicable Could not access tank room

Basement/Lowest level depth below grade: 20 (feet)

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

Earthen floor in crawl space, Concrete floors seem to be free of cracks, 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 Heat pump Hot water baseboard
Space Heaters Stream radiation Radiant floor
Electric baseboard Wood stove Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas Fuel Oil Kerosene
Electric Propane Solar
Wood Coal

Domestic hot water tank fueled by: Steam

Boiler/furnace located in: Basement Outdoors Main Floor Other Steam Piped In

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.

No Duct work present ; small vents and fans create air exchange

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally ^{workers} Seldom Almost Never

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

Basement	Meter room, Compactor room, tank room
1 st Floor -13	Residences
2 nd Floor	Residences
3 rd Floor	Residences
4 th Floor	Residences

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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

j. Has painting/staining been done in the last 6 months? Y / ☒ N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / ☒ N Where & When? _____

l. Have air fresheners been used recently? ☒ Y / N When & Type? _____

m. Is there a kitchen exhaust fan? Y / ☒ N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / ☒ N If yes, where vented? _____

o. Is there a clothes dryer? Y / ☒ N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / ☒ N When & Type? _____

Are there odors in the building? ☒ Y / N

If yes, please describe: Trash Smell, cigarette Smell, possible urine

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? Household Cleaners

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

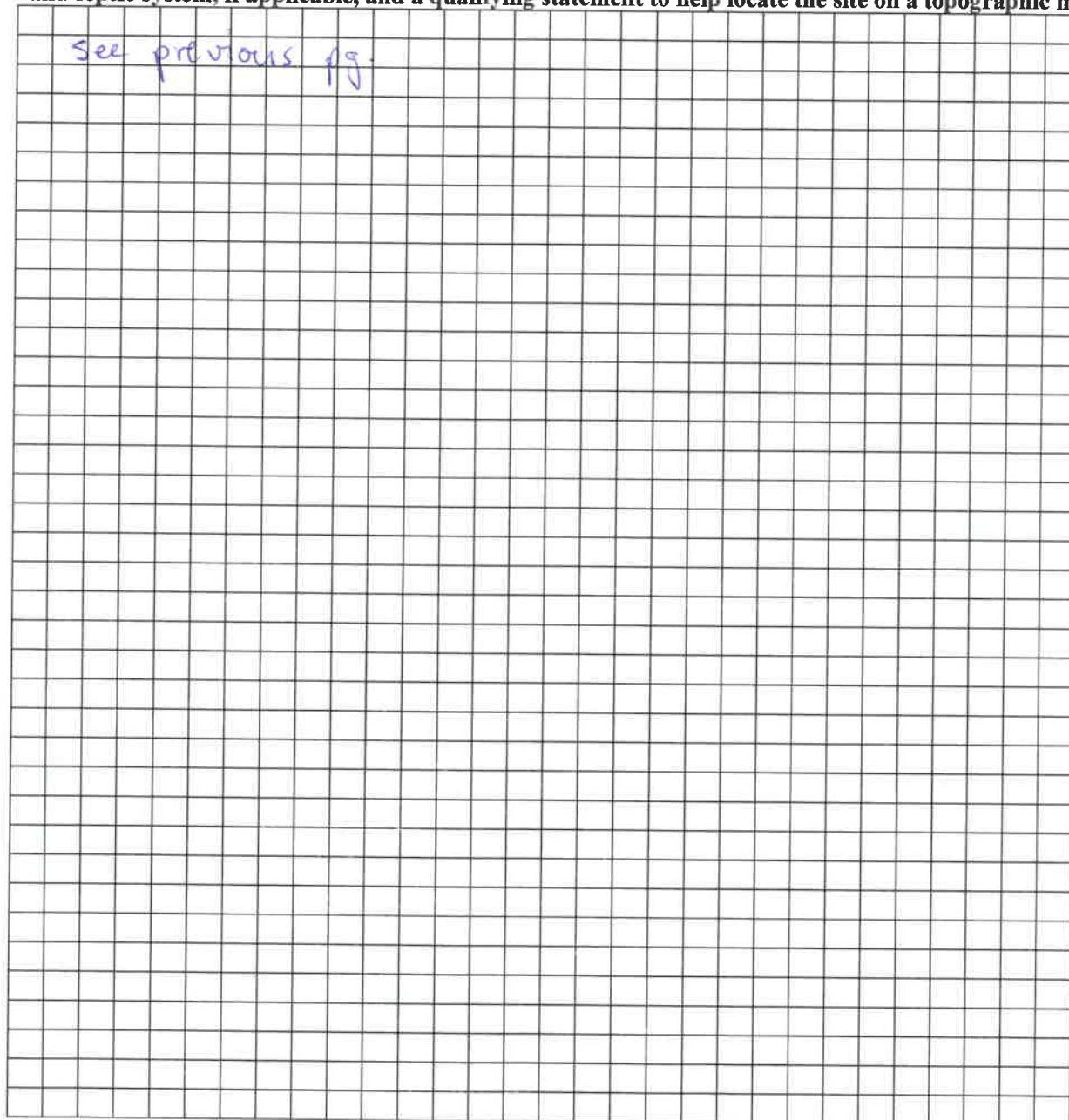
d. Relocation package provided and explained to residents? Y / N

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.

See previous pg.



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

[illegible]

**** 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 D

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 Dylan Corbett Date/Time Prepared 10/30/19

Preparer's Affiliation Arcadis Phone No. 631-391-5203

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: Y / N

Last Name: Collins First Name: Shawn

Address: 459 East 10th Street

County: Manhattan

Home Phone: _____ Office Phone: 212-228-2400

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	<u>Apartment House</u>	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 117 / 104 RA

If the property is commercial, type?

Business Type(s) None

Does it include residences (i.e., multi-use)? Y / N If yes, how many? 104

Other characteristics:

Number of floors 13 Building age 42

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

None - except through gaps in piping or stairwell when door open

Airflow near source

vents in cabinet room and Tank room

Outdoor air infiltration

Fan in tank room for venting

Infiltration into air ducts

No Air Ducts in 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: 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 Tank 100m
- k. Water in sump? Y/N / not applicable

Basement/Lowest level depth below grade: -20 (feet)

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

Minor cracks in ground & wall

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

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

Hot air circulation Heat pump Hot water baseboard
 Space Heaters Stream radiation Radiant floor
 Electric baseboard Wood stove Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas Electric Fuel Oil Kerosene
 Wood Coal Propane Solar

Domestic hot water tank fueled by: Steam

Boiler/furnace located in: Basement Outdoors Main Floor Other Steam piped in

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.

N/A - no supplied air to building, except for
small ventilation vents in wall (basement)

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

Almost Never

LevelGeneral Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage)

Basement

Compressor room, Tank room, storage, Tank room

1st Floor

residences

2nd Floor

residences

3rd Floor

residences

4th Floor

residences

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? can happen

h. Have cleaning products been used recently?

Y / N When & Type? Daily

i. Have cosmetic products been used recently?

Y / N When & Type? Not on ground level

j. Has painting/staining been done in the last 6 months? Y/N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y/N Where & When? _____

l. Have air fresheners been used recently? Y/N When & Type? _____

m. Is there a kitchen exhaust fan? Y/N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y/N If yes, where vented? _____

o. Is there a clothes dryer? Y/N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y/N When & Type? _____

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

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? Household solvents

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: NA
Is the system active or passive? Active/Passive NA

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: NA

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

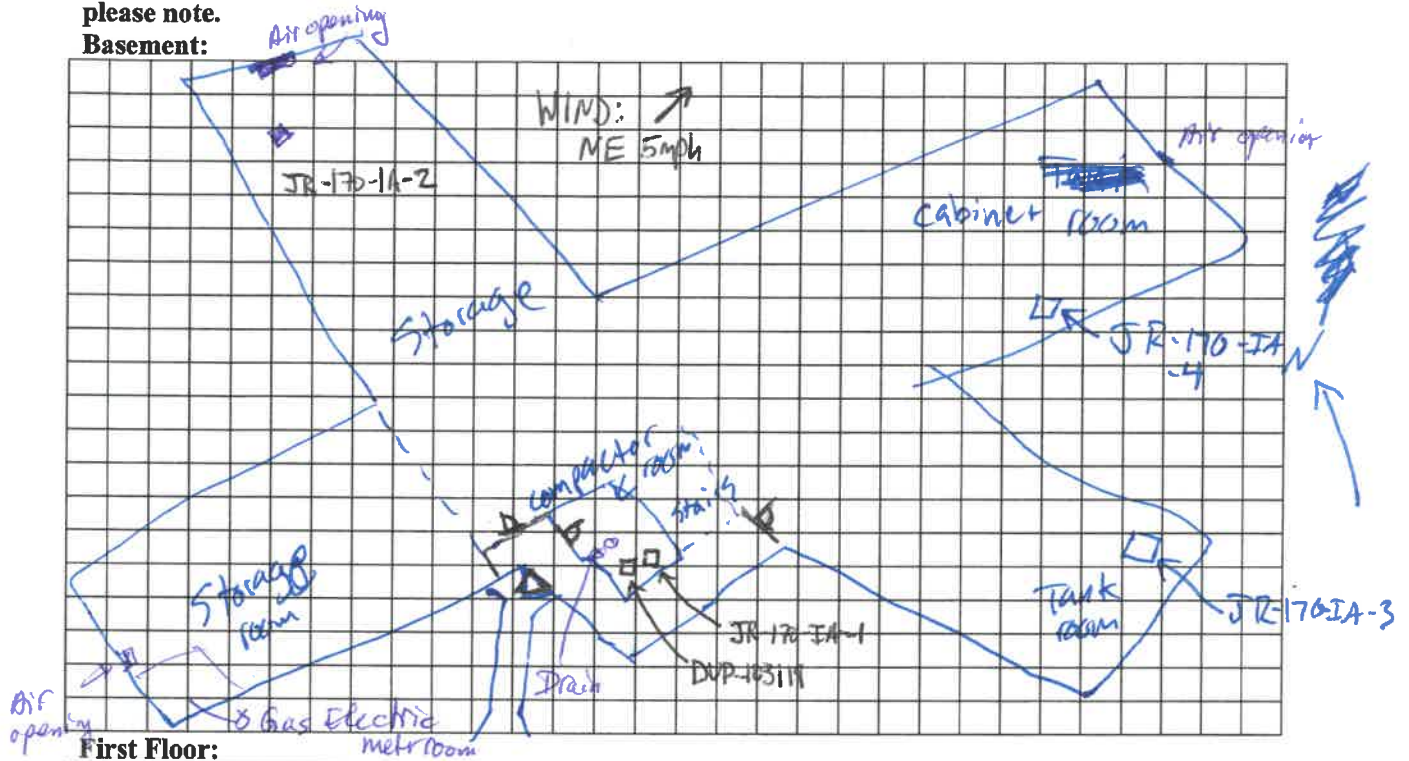
c. Responsibility for costs associated with reimbursement explained? Y/N

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

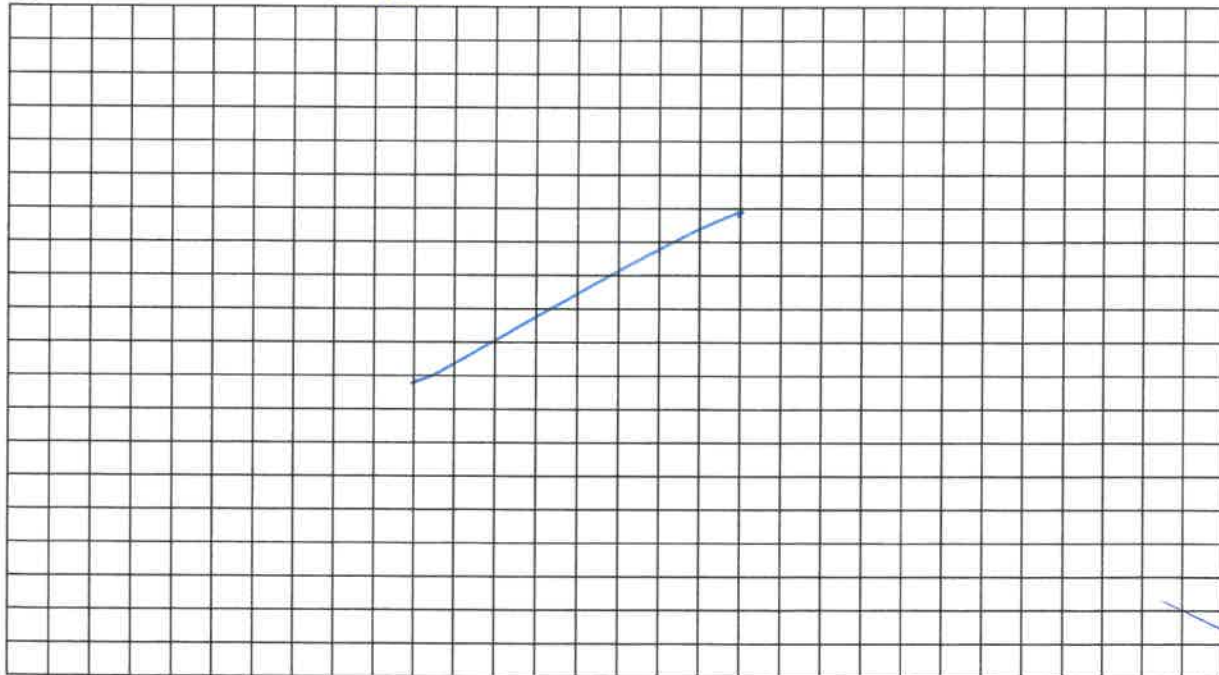
11. FLOOR PLANS

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:



First Floor:



12. OUTDOOR PLOT

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

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

See attached figure

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.

[illegible]

* 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 Redepagic 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: ☒ Y / N

Last Name: Harrison First Name: Lawrence

Address: 152 Scott Str.

County: Wilkes-Barre, PA 18702

Home Phone: _____ Office Phone: 570-328-5786

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: _____

If multiple units, how many? 13 x 8 = 104

If the property is commercial, type?

Business Type(s) NA

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

Other characteristics:

Number of floors 13

Building age 70 yer

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

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with Concret
- 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: _____ (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 Heat pump Hot water baseboard
 Space Heaters Steam radiation Radiant floor
 Electric baseboard Wood stove Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas Fuel Oil Kerosene
Electric Propane Solar
 Wood Coal

Domestic hot water tank fueled by: Steam

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 Storage

1st Floor -13 Residential

2nd Floor _____

3rd Floor _____

4th Floor _____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / N
- b. Does the garage have a separate heating unit? Y / N / NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) 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? outside door
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y / N When & Type? _____

j. Has painting/staining been done in the last 6 months? Y ☒ N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y ☒ N Where & When? _____

l. Have air fresheners been used recently? ☒ Y / N When & Type? _____

m. Is there a kitchen exhaust fan? Y ☒ N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y ☒ N If yes, where vented? _____

o. Is there a clothes dryer? Y ☒ N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y ☒ N When & Type? _____

Are there odors in the building? ☒ Y / N

If yes, please describe: Cleaning liquids / wet air / computer-garbage

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? Cleaning supplies

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

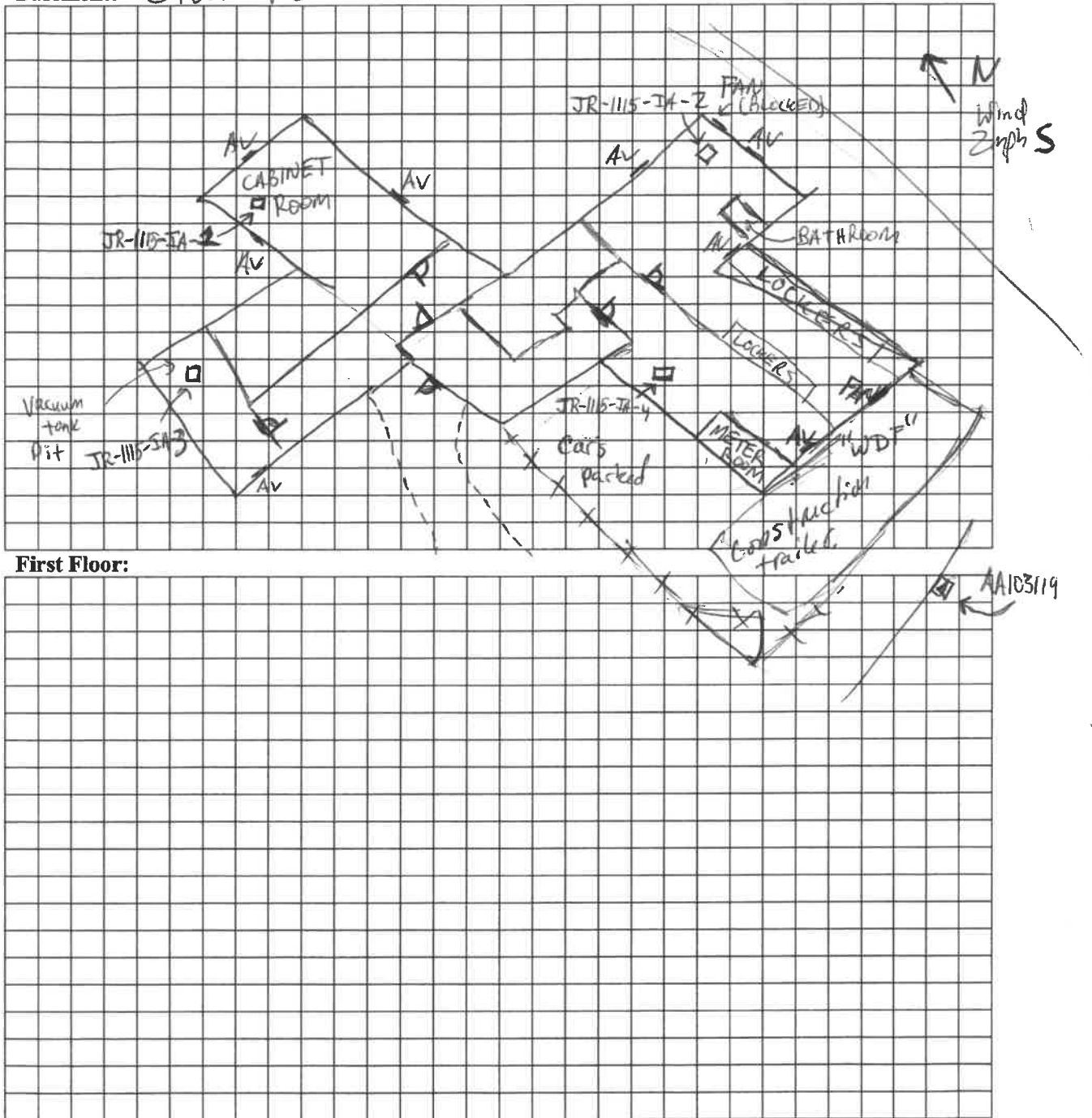
c. Responsibility for costs associated with reimbursement explained? Y / N

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: GROUND FLOOR



12. OUTDOOR PLOT

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

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

A large grid of graph paper, consisting of 20 columns and 30 rows of small squares, intended for drawing a sketch of the area surrounding the building being sampled.

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

[illegible]

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

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

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

Preparer's Name Albina Redzagic Date/Time Prepared 11/1/19 / 10:45am
Preparer's Affiliation Meadis 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: Y / N

Last Name: Harrison First Name: Lawrence

Address: 152 Scott Street

County: Wilkes-Barre, PA 18702

Home Phone: _____ Office Phone: 570-328-5786

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	<u>Apartment House</u>	Townhouses/Condos
Modular	Log Home	Other: <u> </u>

If multiple units, how many? 48

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?

Other characteristics:

Number of floors 6

Building age 70 years

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

None.

Airflow near source

Air shafts, openings in the wall, fans, doors & windows.

Outdoor air infiltration

Open window, Fans, open air shafts in the walls.

Infiltration into air ducts

No air ducts.

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: 10 1/2 concrete 90% 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: 10% wet 40% damp 50% 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: _____ (feet)

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

20% of floor is covered w/ dirt. All of the dirt floor is potential soil vapor intrusion point/ Area.

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

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

Hot air circulation Heat pump Hot water baseboard
 Space Heaters Steam radiation Radiant floor
 Electric baseboard Wood stove Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas Fuel Oil Kerosene
Electric Propane Solar
 Wood Coal

Domestic hot water tank fueled by: SteamBoiler/furnace located in: Basement Outdoors Main Floor Other Separate BuildingAir 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.

No air return/supply ductwork.

7. OCCUPANCY

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

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

Basement Computer room, Tank room, Electric room, Storage

1st Floor -6th Residential

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y / N

b. Does the garage have a separate heating unit?

Y / N / NA

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

Y / N / NA

Please specify _____

d. Has the building ever had a fire?

Y / N When? _____

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

Y / N Where? _____

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

Y / N Where & Type? _____

g. Is there smoking in the building?

Y / N How frequently? _____

h. Have cleaning products been used recently?

Y / N When & Type? _____

i. Have cosmetic products been used recently?

Y / N When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / ☒ N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / ☒ N Where & When? _____

l. Have air fresheners been used recently? ☒ Y / N When & Type? In computer room

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? In the past 6 months active.

Are there odors in the building? ☒ Y / N

If yes, please describe: Sewer, Rodent, Garbage, Musty, All are strong

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? Cleaners

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

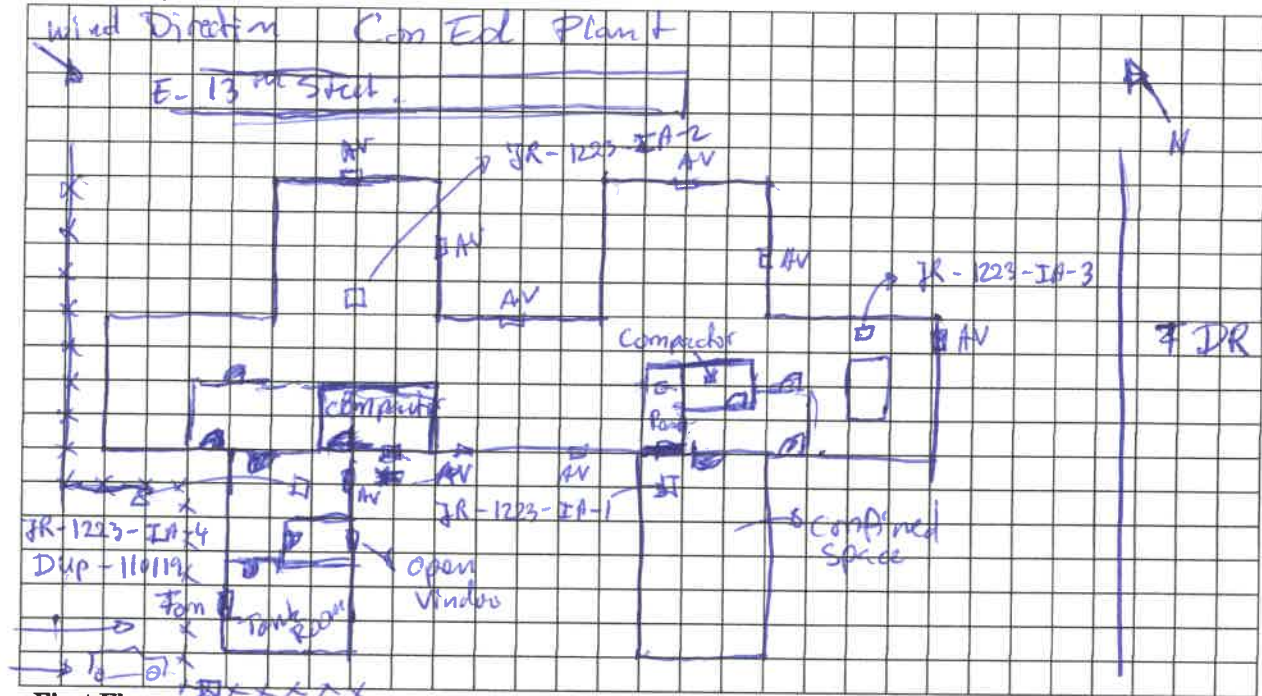
c. Responsibility for costs associated with reimbursement explained? Y / N

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

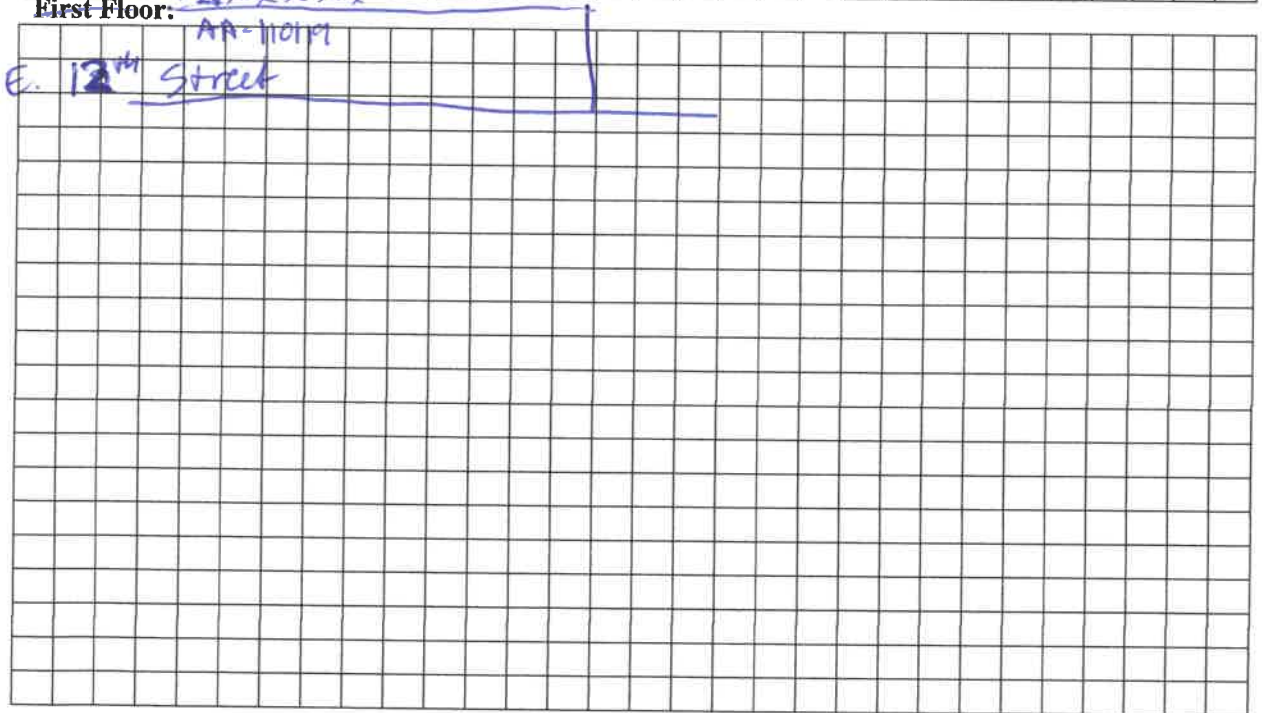
11. FLOOR PLANS

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:



First Floor:

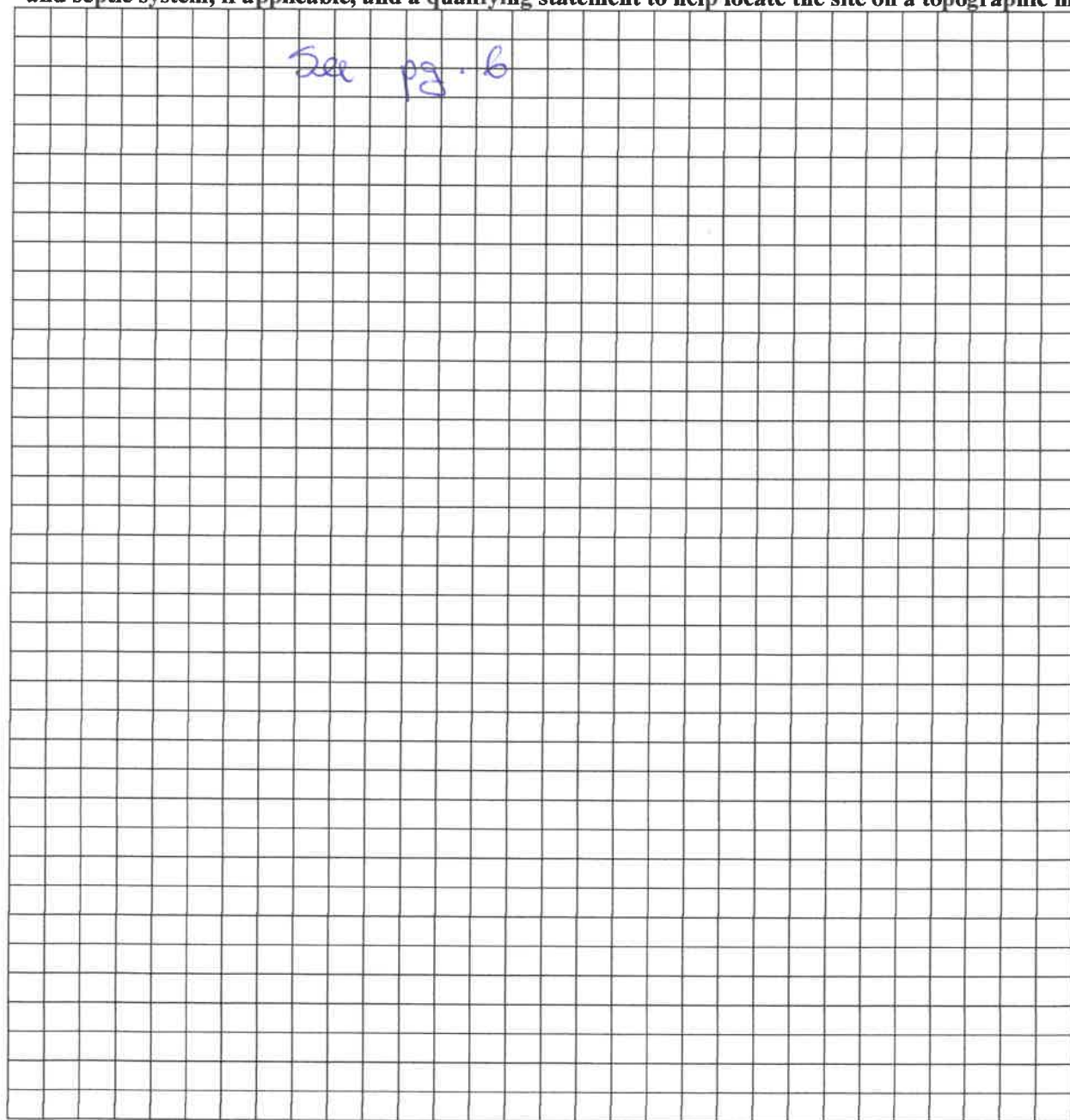


12. OUTDOOR PLOT

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

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

See pg. 6



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

[illegible]

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

APPENDIX B

Photographic Logs – Building Inventories



PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 1

Description: Rat
poison in south east
storage room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 2

Description: Sewage
water in south east
storage room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 3

Description:

JR-1223-IA-1 in south
east storage room

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 4

Description:

Sewage leak on floor in
storage room.

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 5

Description:

Sewage leak in south east storage room

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 6

Description:

Rock salt in south east storage area

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 7

Description:

Electric room in southern end of basement near compactor room

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 8

Description:

Electric room. No cracks in walls.

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 9

Description:
Electric room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 10

Description:
Cleaning supplies in
compactor room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 11

Description:
Cleaning supplies in
compactor room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 12

Description:
Bug Lamp in compactor
room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 13

Description:
Compactor room with
bug lamp

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 14

Description:
Air supply for
compactor room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 15

Description:
Flow sealant in
compactor room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 16

Description:
Hazardous material
receptacle in compactor
room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 17

Description:

General storage in
hallway outside
compactor room

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 18

Description:

General storage in
hallway outside
compactor room

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 19

Description:

JR-1223-IA-3 in east
end of basement

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 20

Description:

JR-1223-IA-3 in east
end of basement

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 21

Description:

Rat poison east storage
area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 22

Description:

Rat trap in east storage
area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 23

Description:
Hallway outside
compactor room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 24

Description:
Sump

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 25

Description:
North end storage area

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 26

Description:
Storage in north end of
basement

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 27

Description:

Plumbing in northern
basement storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 28

Description:

Dirt floor in northern
storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 29

Description:

Air vent in northern storage area

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 30

Description:

Air vent in northern storage area

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 31

Description:
Dirt floor in northern
storage area

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 32

Description:
Dirt floor in northern
storage area

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 33

Description:
Rat poison in northern storage area

Location: Building 1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 34

Description:
Rat poison

Location: Building 1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 35

Description:

Air vent in northern storage area

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 36

Description:

Air vent in northern storage area

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 37

Description:

Air vent in northern
storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 38

Description:

Air vent in northern
storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 39

Description:

Rat poison in northern
storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 40

Description:

Rat poison in northern
storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 41

Description:

Air vent in northern storage area

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 42

Description:

Air vent in northern storage area

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 43

Description:

JR-1223-IA-2 in
northern storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 44

Description:

JR-1223-IA-2 in
northern storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 45

Description:

Storage in northern end of basement

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 46

Description:

Rat poison in northern storage area

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 47

Description:
Dirt floor and plumbing
in tank room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 48

Description:
JR-1223-IA-4 and DUP-
110119 outside tank
room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 49

Description:
Air vent in tank room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 50

Description:
Dirt floor in tank room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 51

Description:
Dirt floor and trash in
tank room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 52

Description:
Air vent in tank room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 53

Description:
Entrance to tank room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 54

Description:
Tank room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 55

Description:

Air vent outside tank room

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 56

Description:

Meter room

Location: Building 1223

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 57

Description:
Meter room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 58

Description:
Loose wires and trash
in meter room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 59

Description:

Tank room

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 60

Description:

Tank room

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 61

Description:
Water and steam
leaking in tank room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 62

Description:
Compactor room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 63

Description:
Biohazard receptacle

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019



Photograph: 64

Description:
Cleaning supplies in
compactor room

Location: Building
1223

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 65

Description:
Hydraulic oil in
compactor room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic
Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 1

Description:

Crawl space vault on
northwest wing on
building – JR-1141-IA-3

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 2

Description:

Groundwater sampling
at MW-122A

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 3

Description:
Groundwater sampling
at MW-122A

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 4

Description:
Looking east at building
1141

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 5

Description:

South side of building
1141

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 6

Description:

South end of building
1141

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 7

Description:

AA-102919 along north west fence to building 1141

Location: Building 1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 8

Description:

AA-102919

Location: Building 1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 9

Description:

AA-102919 looking north along the west fence to building 1141

Location: Building 1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 10

Description:

Crawl space in north west wing of building 1141 (location of JR-1141-IA-3) and looking south at AA-102919

Location: Building 1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 11

Description:
JR-1141-IA-1 in tank
room above sump

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 12

Description:
Air vent in tank room

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 13

Description:
Air duct in tank room

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 14

Description:
Plumb in tank room

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 15

Description:
Plumbing in tank room

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 16

Description:

Cleaning supplies in
storage area

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 17

Description:

Mid-day check on JR-
1141-IA-1

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 18

Description:
Sump in tank room

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 19

Description:
Air vent in tank room

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 20

Description:
Hallway outside tank
room and meter room

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 21

Description:
Hallway outside meter
room in tank room

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 22

Description:
JR-1141-IA-2 in meter
room

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 23

Description:
Meter room

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 24

Description:
Meter room

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 25

Description:
Ventilation in meter room

Location: Building 1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 26

Description:
Entrance to ground level basement in building 1141

Location: Building 1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company
East 11th Street Indoor Air Sampling/30005328
New York, NY



Photograph: 27

Description:

JR-1141-IA-3 in crawl space

Location: Building 1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 28

Description:

Crawl space in north west wing of building

Location: Building 1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 1

Description: Plaster room
break area.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 2

Description: Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 3

Description: Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 4

Description: Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



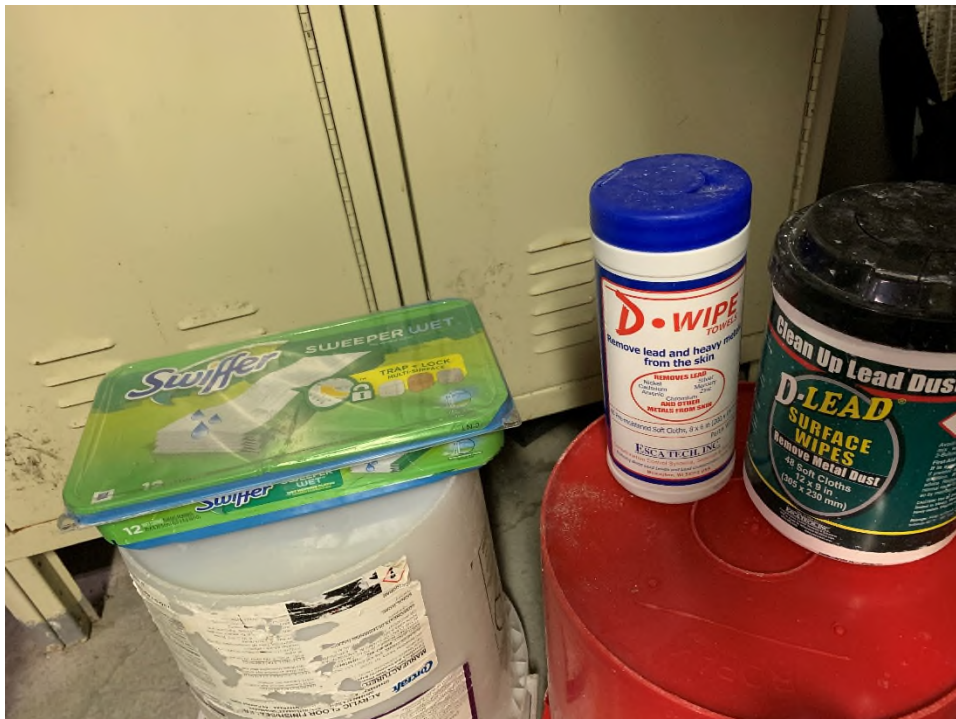
Photograph: 5

Description: Plaster room
break area.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 6

Description: Plaster room
break area.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 7

Description: Plaster room
break are – content
unknown.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 8

Description: Plaster room
break are – content
unknown.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 9

Description: Plaster room break are – air freshener spray can.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 10

Description: Plaster room break are – empty.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 11

Description: Plaster room entrance door.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 12

Description: Plaster room break are – empty buckets.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 13

Description: Plaster room
break are.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 14

Description: Plaster room
break are.

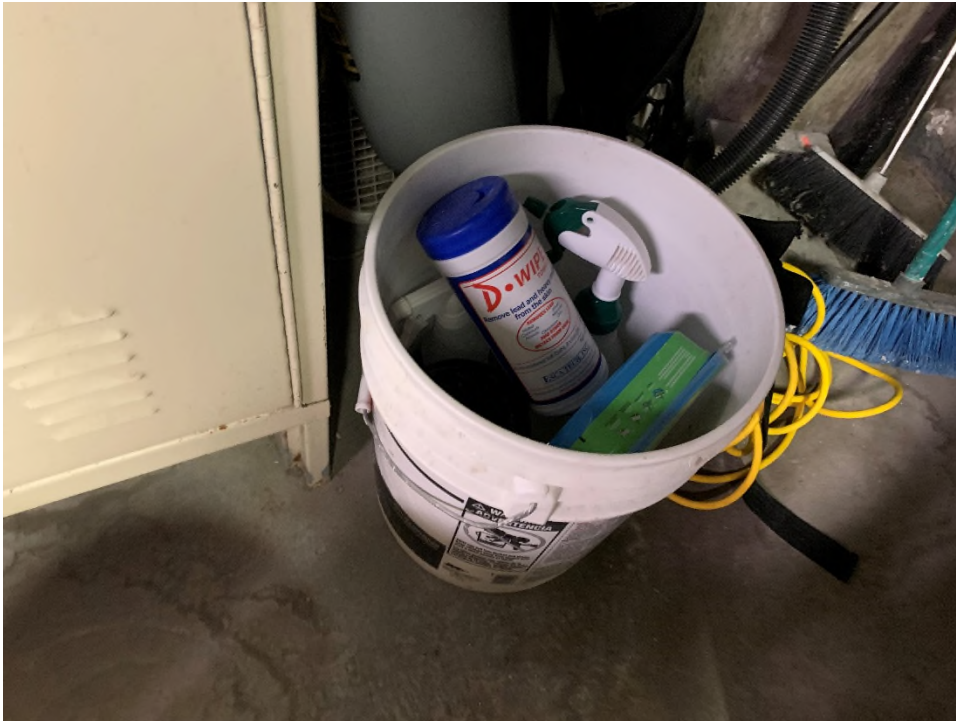
Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 15

Description: Plaster room break are.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 16

Description: Plaster room break are – fan.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 17

Description: Plaster room
eye wash station .

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 18

Description: Plaster room
air ven.

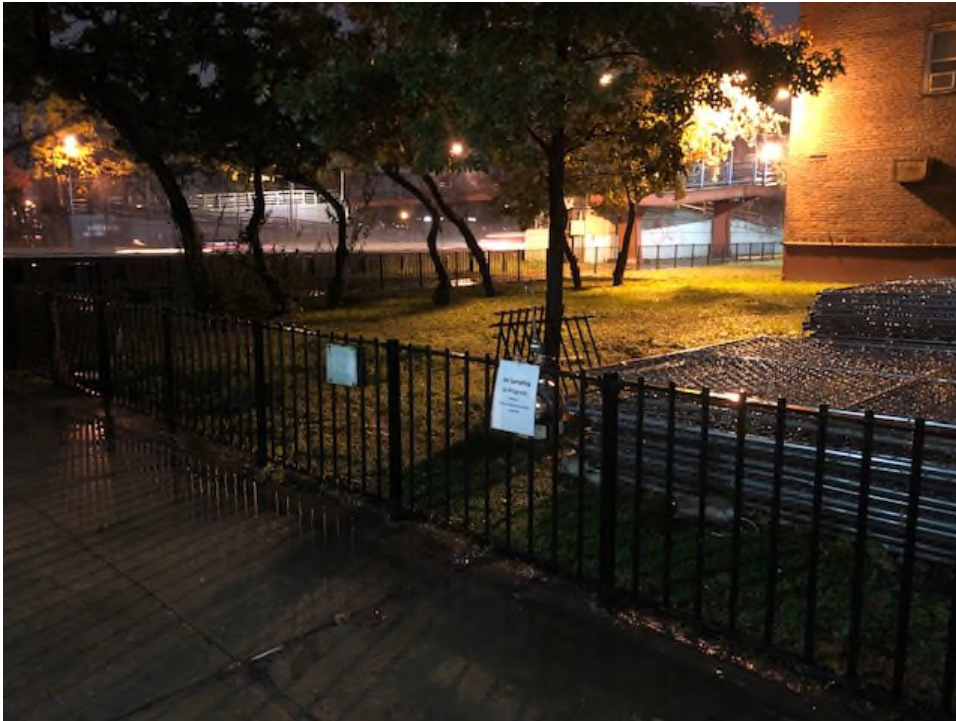
Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



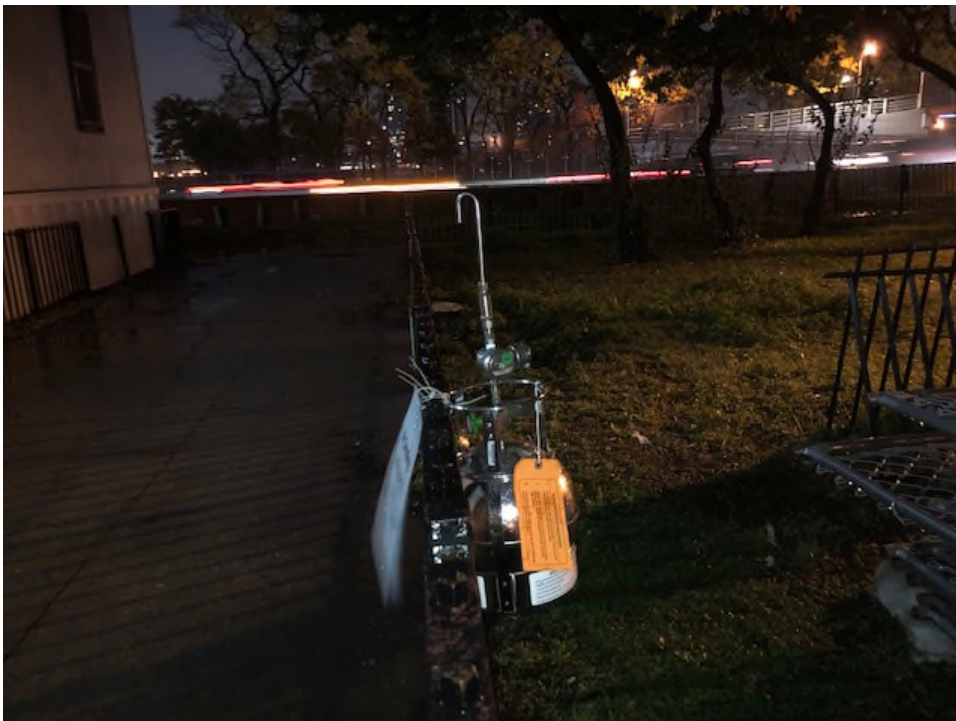
Photograph: 19

Description: Ambient air sample setup.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 20

Description: Ambient air sample setup.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 21

Description:
Tank room.

Location:
Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 22

Description: Tank room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 23

Description:
Tank room sump.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 24

Description:
Tank room ceiling.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 25

Description:
Tank room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 26

Description:
Tank room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 27

Description:
Tank room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 28

Description:
Tank room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 29

Description:
Tank room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 30

Description:
Tank room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 31

Description:
Tank room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 32

Description:
Tank room hallway.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 33

Description:
Tank room hallway.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 34

Description:
Tank room hallway.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



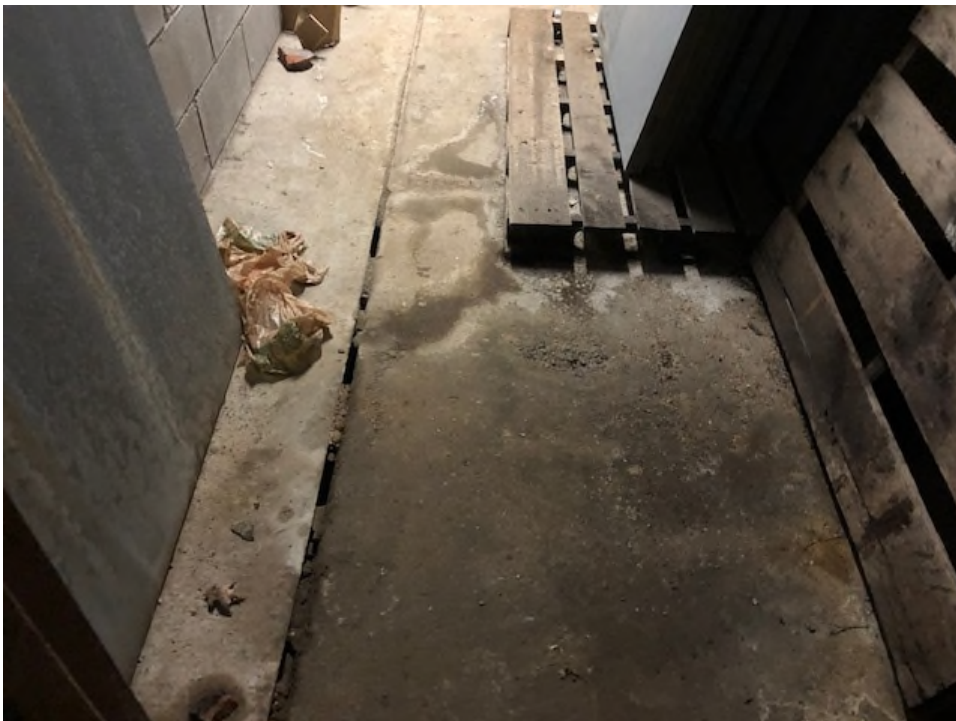
Photograph: 35

Description:
Tank room hallway.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 36

Description:
Tank room hallway.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 37

Description:

Storage room before plaster room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 38

Description:

Storage room before plaster room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 39

Description:

Storage room before plaster room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 40

Description:

Storage room before plaster room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 41

Description:

Storage room before plaster room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 42

Description:

Storage room before plaster room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 43

Description:

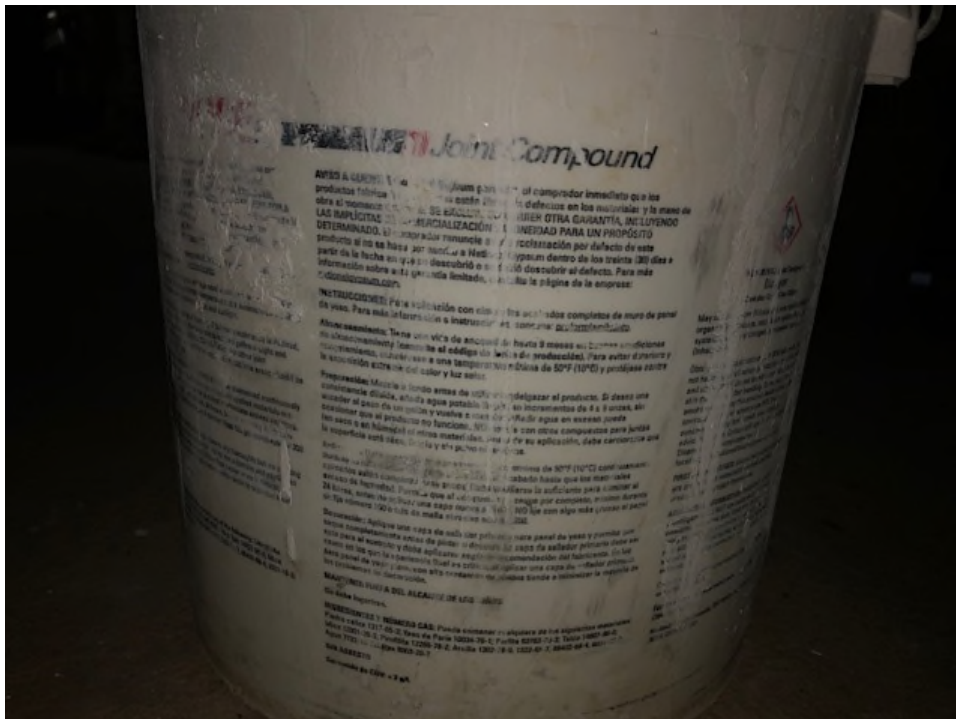
Storage room before plaster
room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 44

Description:

Storage room before plaster
room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 45

Description:

Storage room before plaster
room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 46

Description:

Storage room before plaster room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 47

Description:

Storage room before plaster room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 48

Description:

Electric room east building.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 49

Description:
Electric room east building.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 50

Description:
Electric room east building.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 51

Description:
East storage room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 52

Description:
East storage room - drain.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



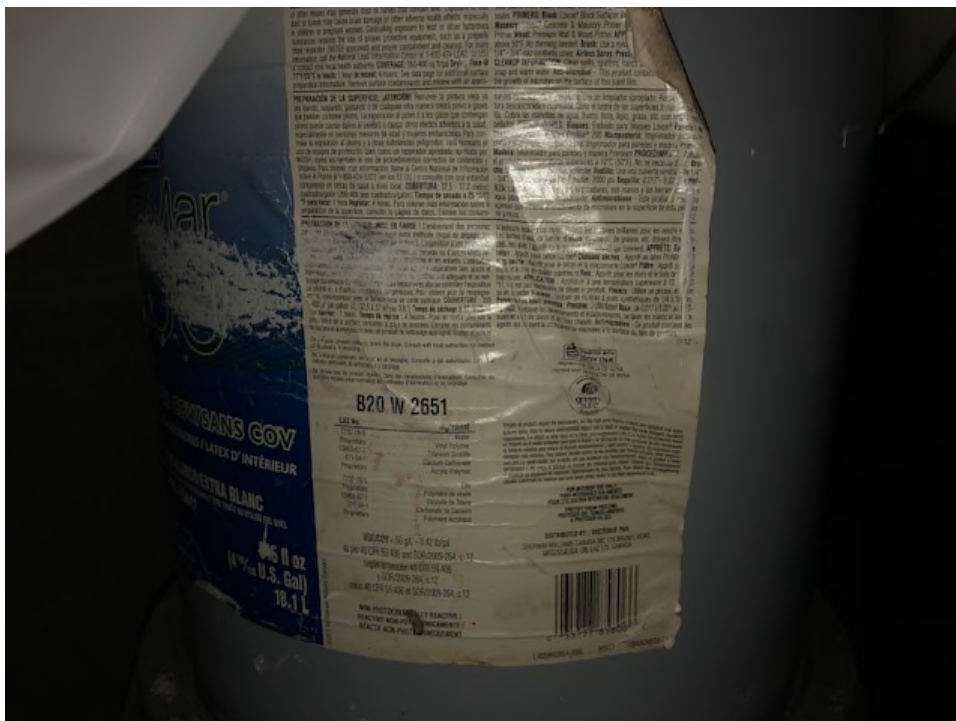
Photograph: 53

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 54

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 55

Description:
Plaster room air vent.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 56

Description:
Plaster room air fan.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 57

Description:

Plaster room – equipment cleaning area.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 58

Description:

Plaster room – equipment cleaning area drain.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 59

Description:

Plaster room – equipment
cleaning area - shaft.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 60

Description:

Plaster room – equipment
cleaning area – cracked
floor.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



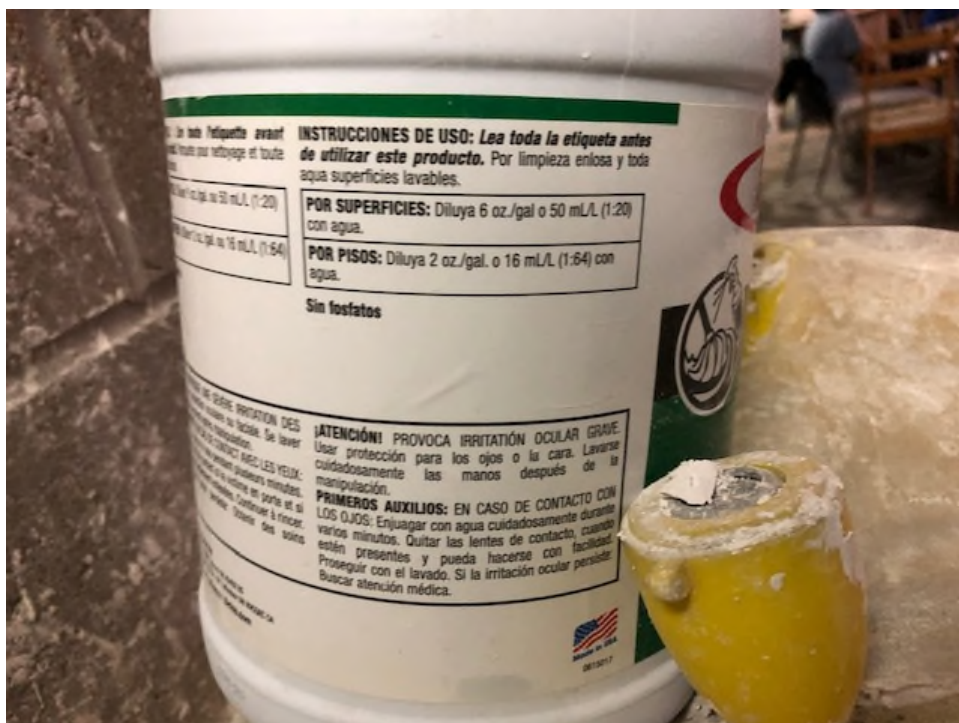
Photograph: 61

Description:
Plaster room – equipment
cleaning area.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 62

Description:
Plaster room – equipment
cleaning area.

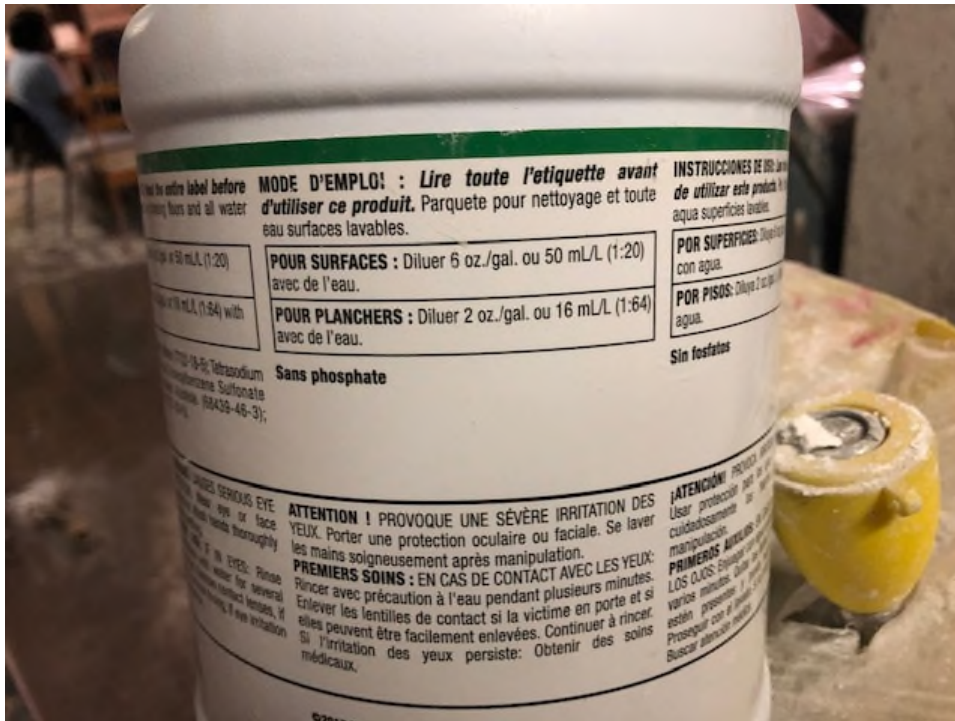
Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 63

Description:

Plaster room – equipment cleaning area.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 64

Description:

Plaster room – equipment cleaning area.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 65

Description:
Restroom inside plaster
room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 66

Description:
Restroom inside plaster
room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 67

Description:
Restroom inside plaster
room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 68

Description:
Restroom inside plaster
room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 69

Description:
Restroom inside plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 70

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 71

Description:
Plaster room.

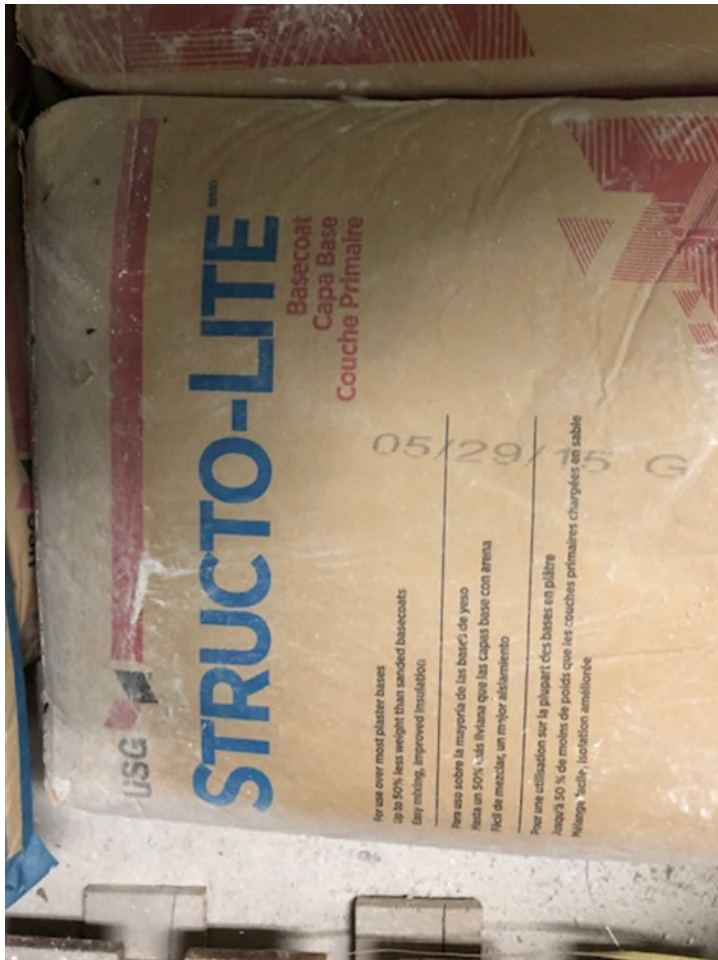
Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 72

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 73

Description:

Plaster room.

Location: Building 1115

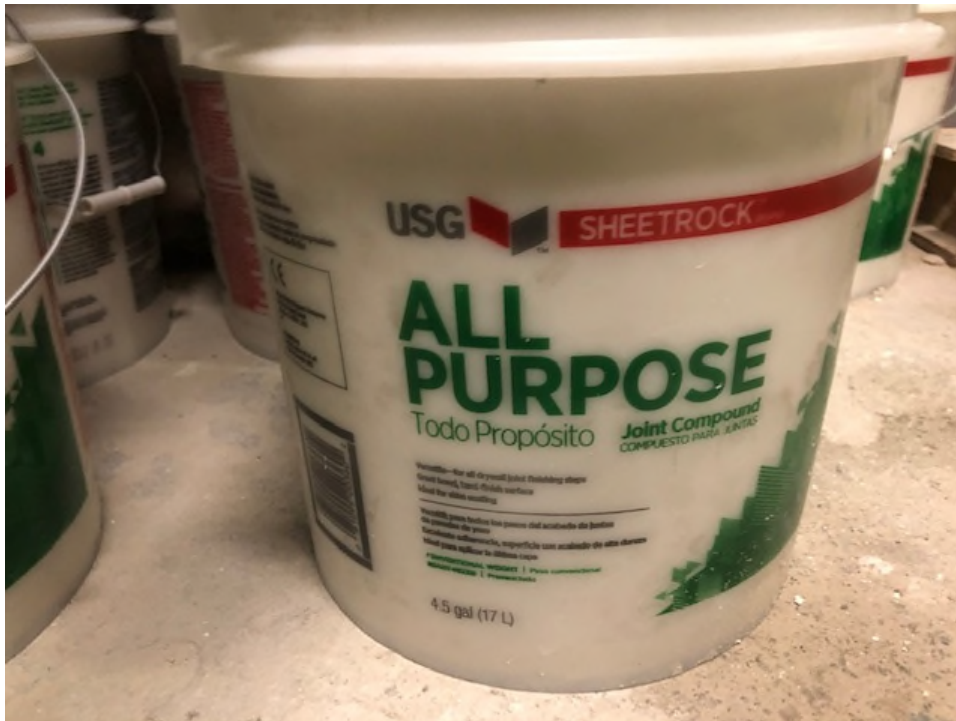
Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 74

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 75

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 76

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 77

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 78

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 79

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 80

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 81

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



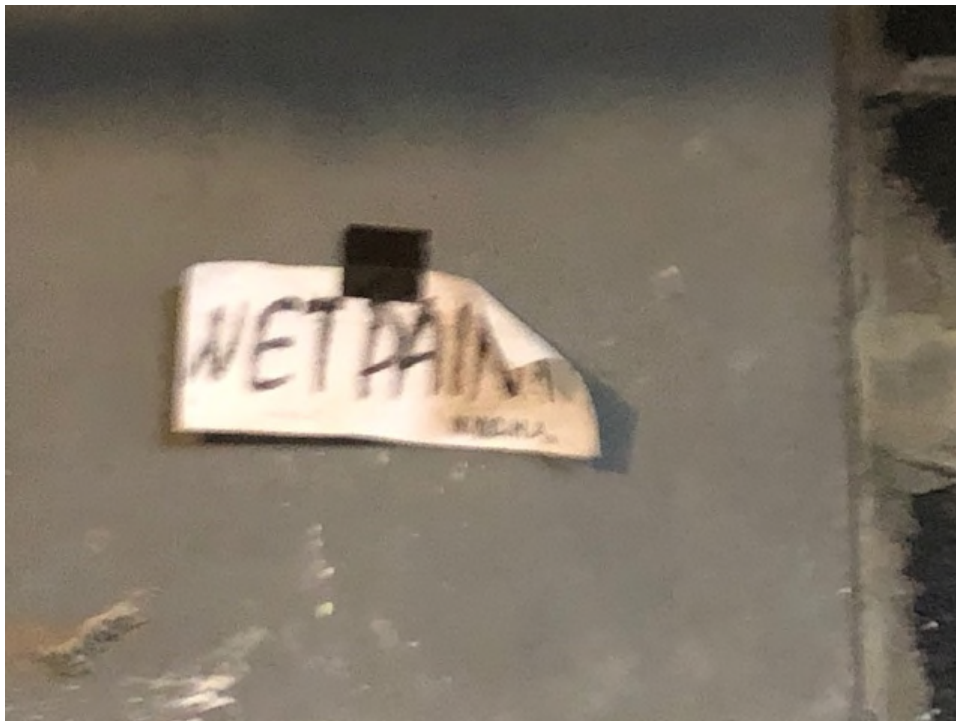
Photograph: 82

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 83

Description:
Plaster room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 84

Description:

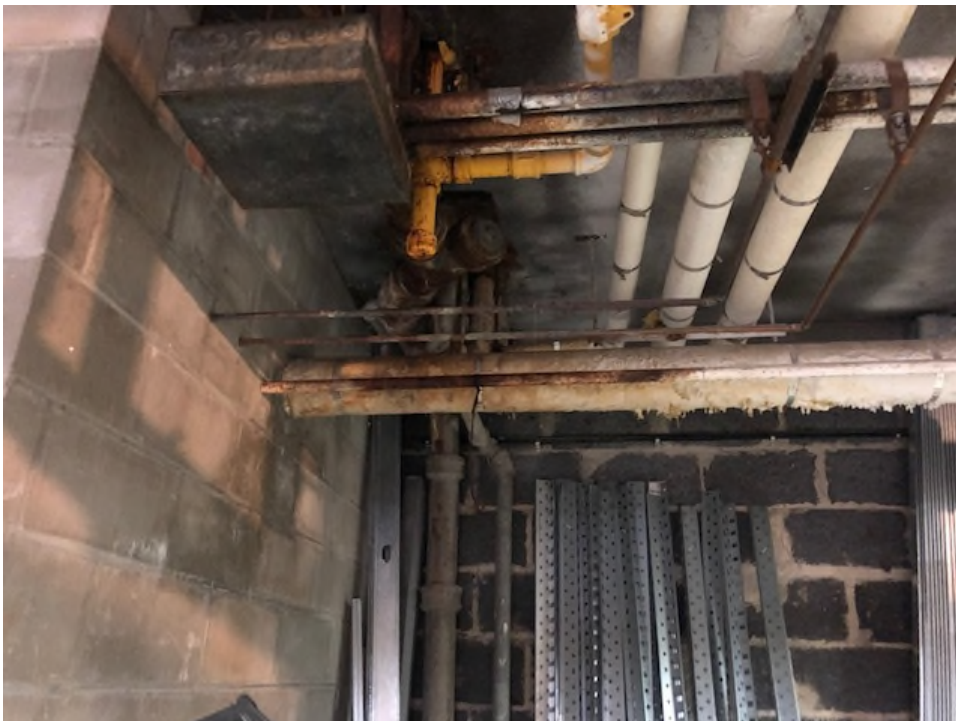
Plaster room – mold on the ceiling.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 85

Description:

Plaster room – rain water dripping.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 86

Description:

Plaster room – rain water dripping.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 87

Description:

Plaster room – brake area.

Location: Building 1115

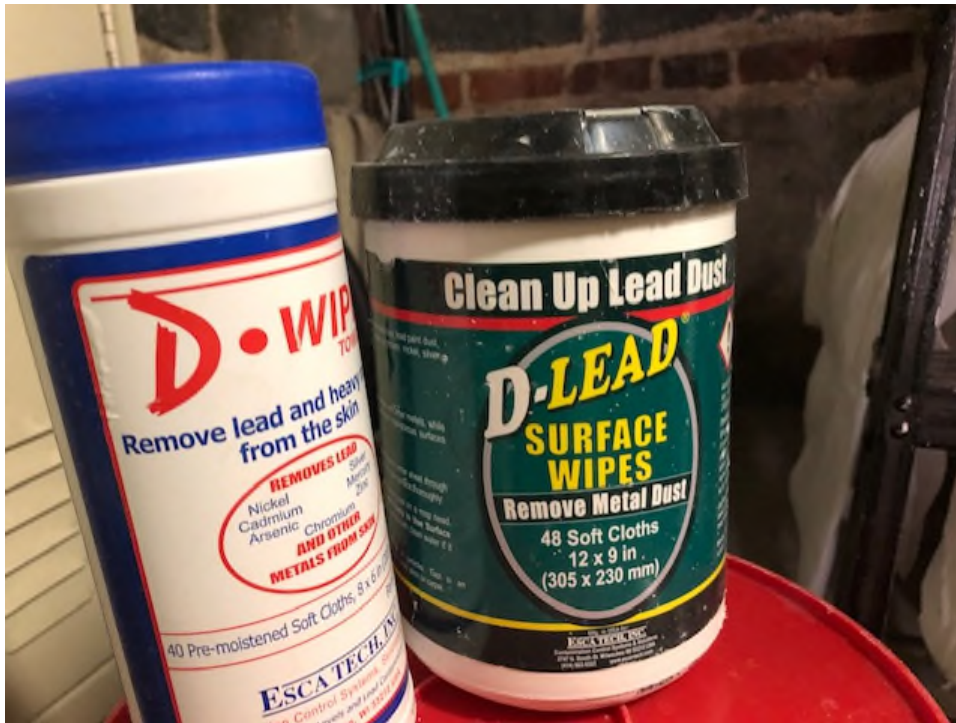
Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



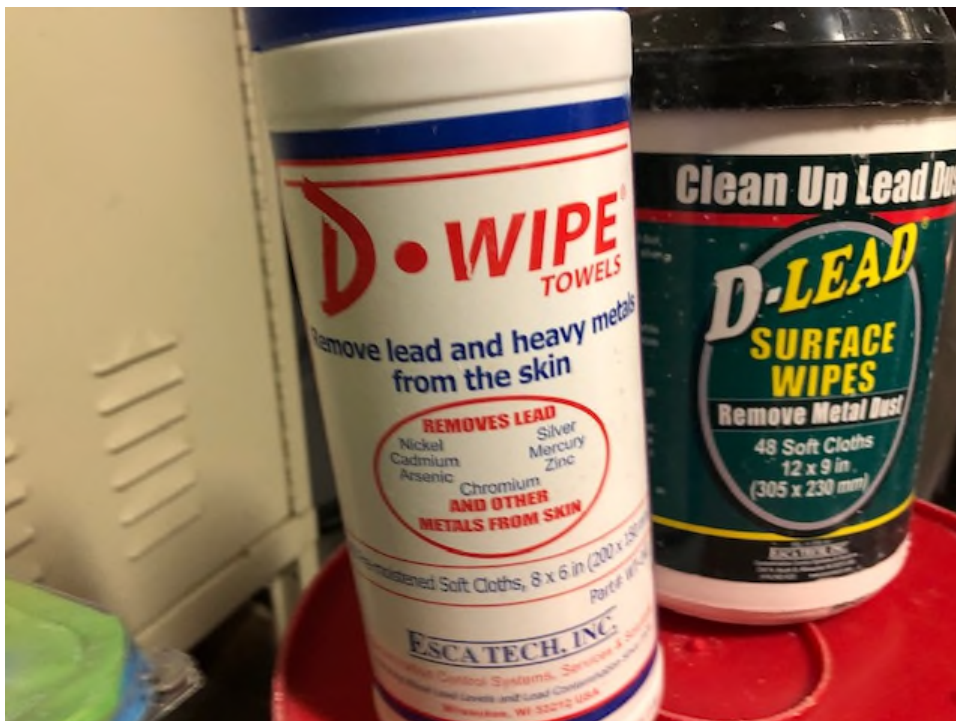
Photograph: 88

Description:
Plaster room – brake area.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 89

Description:
Plaster room – brake area.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 90

Description:

Plaster room – brake area.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 91

Description:

Cabinet storage room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 92

Description:
Cabinet storage room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 93

Description:
Cabinet storage room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 94

Description:
Cabinet storage room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 95

Description:
Cabinet storage room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 96

Description:

Cabinet storage room – air vent.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 97

Description:

Cabinet storage room.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 98

Description:
Cabinet storage room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 99

Description:
Cabinet storage room –
water damage on the wall.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 100

Description:

Cabinet storage room -
mildew.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019



Photograph: 101

Description:

Cabinet storage room -
mildew.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 102

Description:

Cabinet storage room -
mildew.

Location: Building 1115

Photograph taken by:

Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 1

Description:
JR-178-IA-3 in meter
room

**Location: Building
178**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 2

Description:
Meter room

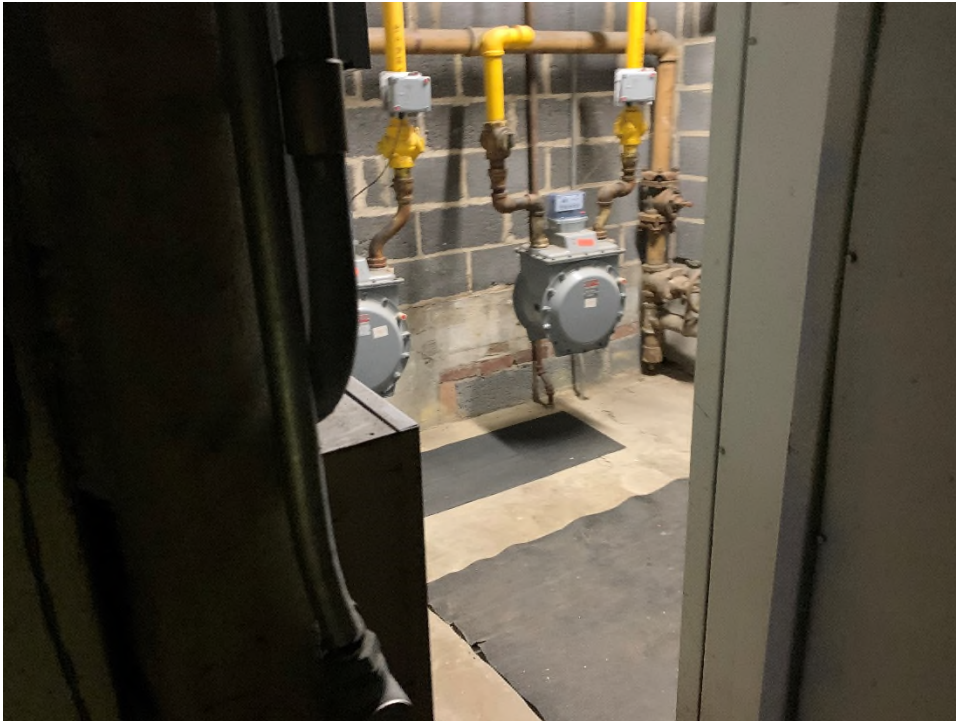
Location: Building
178

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 3

Description:
Meter room

Location: Building
178

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 4

Description:
Meter room

Location: Building
178

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 5

Description:
Meter room

Location: Building
178

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 6

Description:
Meter room

Location: Building
178

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 7

Description:
Compactor room

Location: Building
178

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 8

Description:
Cleaning supplies in
compactor room

Location: Building
178

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 9

Description:
Compactor room

Location: Building
178

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 1

Description:
North west storage
area

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 2

Description:
Air duct to compactor
room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 3

Description:
Basement hallway with
ventilation

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 4

Description:
Basement hallway to
storage area

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 5

Description:
Basement hallway to
compactor room and
storage area

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 6

Description:
Floor grate in basement
hallway

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 7

Description:
Some staining on floor
from cleaning supplies

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 8

Description:
Plumbing in hallway

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 9

Description:

Window in storage area
outside tank room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 10

Description:

Window in storage area
outside tank room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 11

Description:

Storage area in northern wing of basement

Location: Building 170

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 12

Description:

JR-170-IA-2 in north storage area

Location: Building 170

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 13

Description:
JR-170-IA-2 in northern
storage area

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 14

Description:
Tank room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 15

Description:
Tank room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 16

Description:
Meter room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 17

Description:

Tank room

**Location: Building
170**

Photograph taken by:

Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 18

Description:

Looking south east at
playground with
building 178 behind
photographer

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 19

Description:
JR-170-IA-3 in cabinet
room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 20

Description:
JR-170-IA-3 in cabinet
room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 21

Description:
Cabinet room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 22

Description:
Cabinet room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 23

Description:
Storage room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 24

Description:
Storage room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 25

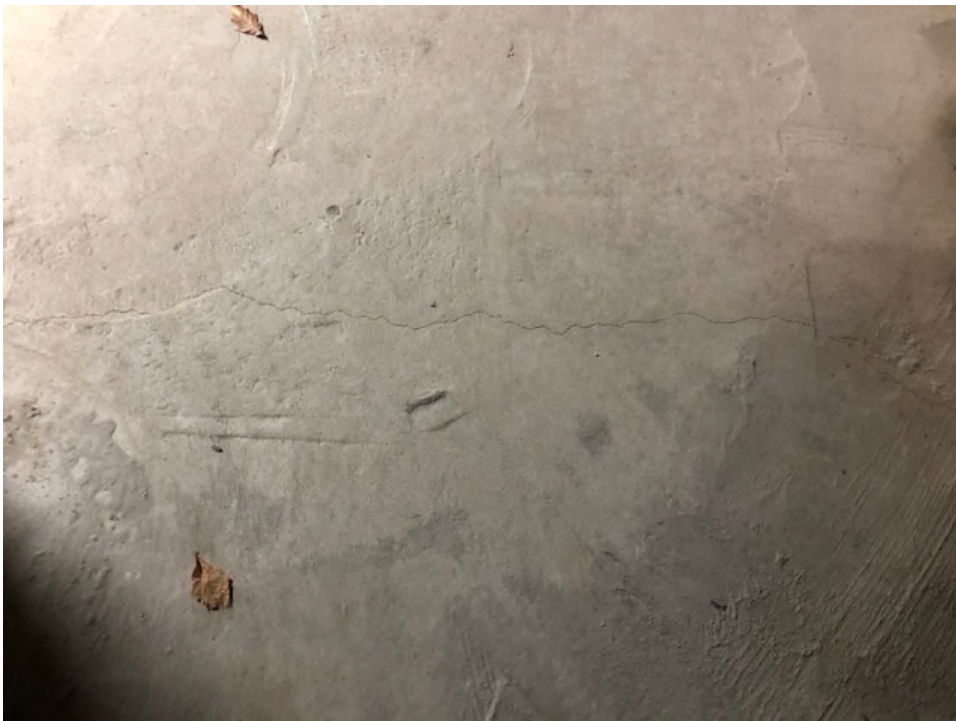
Description:

Sealed cracks in wall of
storage room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 26

Description:

Sealed cracks in wall of
storage room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 27

Description:

Air vent in storage room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 28

Description:

Air vent in storage room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 29

Description:
Sealed cracks in wall of
storage room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 30

Description:
Concrete patch in
storage room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 31

Description:

Air vent in storage room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 32

Description:

New concrete floor in
storage room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 33

Description:
Meter room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 34

Description:
Cracks in wall for
plumbing outside meter
room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 35

Description:
Outside meter room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 36

Description:

Cracks in the floor
outside meter room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 37

Description:
Compactor room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 38

Description:
Biohazard receptacle in
compactor room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 39

Description:
First aid kit in
compactor room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 40

Description:
Meter room

Location: Building
170

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 41

Description:
Floor drain in meter
room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 42

Description:
Unknown empty
cleaning spay bottle in
compactor room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 43

Description:

Staining and rain trap in
compactor room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019


APPENDIX C

Sample Collection Logs



ARCADIS

Appendix B - Ambient Air Sampling and Analysis

 Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: <u>AA102919</u>	
Client:	<u>Consolidated Edison</u>	Outdoor/Indoor:	<u>outdoor</u>
Project:	<u>E. 11th Str. / Jacob Riis</u>	Sample Intake Height:	<u>3 ft</u>
Location:	<u>NW corner (1141 Bldg.)</u>	Miscellaneous Equipment:	
Project #:	<u>30005329</u>	Time On/Off:	<u>0830 / 1632</u>
Samplers:	<u>DC/RA</u>	Subcontractor:	<u>—</u>

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0836	-30	54°F				0
1510	-10	60°F				0
1555	-8	60°F				0
1632	-5	60°F				0

SUMMA Canister Information:

Size (circle one): 1 L 6L


Canister ID: 09610

Flow Controller ID: 09714

General Observations/Notes:

<u>Placed at NW corner of 1141 Bldg; locked to fence w/ Warning Sign + Safety Cone.</u>

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: JR-1141-IA-1	
Client:	Consolidated Edison	Outdoor/Indoor:	Indoor
Project:	E. 11 th St. - Jacob Riis	Sample Intake Height:	5 ft
Location:	Tank room - 1141	Miscellaneous Equipment:	
Project #:	3000 5328	Time On/Off:	8:56 / 16:41
Samplers:	DC/RA	Subcontractor:	—

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0856	-3.8					0
11:57	-2.0					0
16:41	-2					0

SUMMA Canister Information:

Size (circle one): 1 L (6 L)


Canister ID: 8100

Flow Controller ID: 10863

General Observations/Notes:

on scaffolding above sump in Tank room

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

 Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: <u>JR-1141-AI-2</u>	
Client:	<u>Consolidated Edison</u>	Outdoor/Indoor:	<u>Indoor</u>
Project:	<u>E. 11th Street / 7th Ave</u>	Sample Intake Height:	<u>~3 ft</u>
Location:	<u>Electric Room</u>	Miscellaneous Equipment:	<u> </u>
Project #:	<u>30005328</u>	Time On/Off:	<u>7:58 / 16:41</u>
Samplers:	<u>DC/RA</u>	Subcontractor:	<u>- NA -</u>

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
<u>8:58</u>	<u>-30</u>					<u>0</u>
<u>12:00</u>	<u>-31</u>					<u>0</u>
<u>16:41</u>	<u>-6</u>					<u>0</u>

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 10097

Flow Controller ID: 447

General Observations/Notes:

<u>Basement hallway - 1141 in electrical room</u>

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

 Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID:	8
Client:	Consolidated Edison	Outdoor/Indoor:	JR-1141-IA-3
Project:	E. 11 th Street	Sample Intake Height:	~2 Ft
Location:	crawl space	Miscellaneous Equipment:	
Project #:	3000 5328	Time On/Off:	9:04 / 1644
Samplers:	DC / RA	Subcontractor:	- NA -

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
9:04	-30					0
12:07	-23					0
16:44	-4					0

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 09620

Flow Controller ID: 9713

General Observations/Notes:


crawl space in 1141

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

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Appendix B - Ambient Air Sampling and Analysis

10/30/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: <u>AA103019</u>	
Client:	<u>Consolidated Edison</u>	Outdoor/Indoor:	<u>Outdoor</u>
Project:	<u>E 11 St. / Jacob Riis</u>	Sample Intake Height:	<u>~3ft</u>
Location:	<u>SE Fence, Bldg 178</u>	Miscellaneous Equipment:	
Project #:	<u>30005328</u>	Time On/Off:	<u>0724 / 1503</u>
Samplers:	<u>DC/RA</u>	Subcontractor:	

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0724	-30	~55°				0
1030	-23					0
1140	-18	~62°				0
1300	-13					0
1503	-6	~62°				0

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 10033


Flow Controller ID: 11536

General Observations/Notes:

<u>SE corner of building 178 along fence</u> <u>overcast, light rain began at 5pm</u>
--

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

10/30/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID:	JR-178-FA-1
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	E 11 St / Jacob Riis	Sample Intake Height:	~ 2 ft
Location:	Compressor Room (Bldg. 178)	Miscellaneous Equipment:	
Project #:	30005328	Time On/Off:	0741 / 3:35
Samplers:	DC/RA	Subcontractor:	

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
741	-30					
1450	-10					
1535	-8					

SUMMA Canister Information:Size (circle one): 1 L 6 L

Canister ID: 10484

Flow Controller ID: 7307

General Observations/Notes:


Compressor room

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

ARCADIS

Appendix B - Ambient Air Sampling and Analysis

10/30/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID:	JR-I78-IA-2
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	E 11 St / Jacob R. is	Sample Intake Height:	~2 ft
Location:	Crawl Space (Bldg. 178)	Miscellaneous Equipment:	
Project #:	30005328	Time On/Off:	7:40 / 1551
Samplers:	DC / RA	Subcontractor:	

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
7:40	-30					
1301	-19					
1430	-4					
1551	-4					

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 10237

Flow Controller ID: 11898

General Observations/Notes:


crawl space NW corner

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

ARCADIS

Appendix B - Ambient Air Sampling and Analysis

10/30/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: JR-178-IA-3	
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	Ell St / Jacob Riis	Sample Intake Height:	2 ft
Location:	Meter Room (Bldg. 178)	Miscellaneous Equipment:	
Project #:	30005328	Time On/Off:	0730 / 1521
Samplers:	DC / RA	Subcontractor:	✓

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0730	-30					
1430	-11					
1521	-5					

SUMMA Canister Information:

Size (circle one): 1 L 6L


Canister ID: 09687

Flow Controller ID: 11511

General Observations/Notes:

Electrical room / Meter room

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID:	JR-170-IA-1
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	E 11 St / Jacob Riis	Sample Intake Height:	3 ft
Location:	170 Compactor Room	Miscellaneous Equipment:	
Project #:	30005328	Time On/Off:	840 - 1637
Samplers:	DC/RA	Subcontractor:	X/A

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0840	-29					0
1148	-18					0
1637	-6					0

SUMMA Canister Information:

Size (circle one): 1 L (6 L)

Canister ID: 10515


Flow Controller ID: 11583

DUP 103119
Canister: 09508
Controller ID: 8862

General Observations/Notes:

Compactor Room
Canisters leaked
Canister 10515 not used

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: <u>DUP103119</u> JR-170-IA-1	
Client:	<u>ConEd</u>	Outdoor/Indoor:	<u>Indoor</u>
Project:	<u>ETTS/Jacob Riis</u>	Sample Intake Height:	<u>3 ft</u>
Location:	<u>Computer Room (Bldg. 170)</u>	Miscellaneous Equipment:	<u>—</u>
Project #:	<u>30005328</u>	Time On/Off:	<u>08:40 - 1637</u>
Samplers:	<u>AR RA</u>	Subcontractor:	<u>—</u>

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0840	-29					0
1148	-20					0
						0
						0
1637	-8					0

SUMMA Canister Information:

Size (circle one): 1 L (6L)


Canister ID: 09508

Flow Controller ID: 8862

General Observations/Notes:

<u>Sister sample JR-170-IA-1</u>
<u>Computer Room</u>

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID:	YR-170-2A-2
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	E 11 St / Jacob Riis	Sample Intake Height:	3 ft
Location:	170 / West Storage	Miscellaneous Equipment:	—
Project #:	30005328	Time On/Off:	0804 - 1614
Samplers:	DC / RA	Subcontractor:	—

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0804	~29					0
1147	~20					0
						0
1614	~5					0

SUMMA Canister Information:

Size (circle one): 1 L (6 L)

Canister ID: 11041

Flow Controller ID: 11468

General Observations/Notes:


Rainwater dripping from leaks, mildew on ceiling
Storage room
Kitchen cabinets, storage

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

ARCADIS

Appendix B - Ambient Air Sampling and Analysis

10/30/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: JR-170-IA-3	
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	Ell St / Jacob Riis	Sample Intake Height:	8 Ft
Location:	Tank Room (Bldg. 170)	Miscellaneous Equipment:	
Project #:	30005328	Time On/Off:	4:26 / 1559
Samplers:	DC/RA	Subcontractor:	

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0826	-30					0
1559	-6					0

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 11265


Flow Controller ID: 7652

General Observations/Notes:

Tank room

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

10/30/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID:	0R-170-2A-4
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	El St / Jacob Riis	Sample Intake Height:	2 Ft
Location:	2nd St Storage Room (Bldg. 170)	Miscellaneous Equipment:	-
Project #:	30005328	Time On/Off:	824/1559
Samplers:	DC/RA	Subcontractor:	

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
824 1559	30 56					0 0

SUMMA Canister Information:

Size (circle one): 1 L ☒ 6 L

Canister ID: 10306

Flow Controller ID: 0A658


General Observations/Notes:

crawl space / Storage / cabinet room East wing

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

ARCADIS

Appendix B - Ambient Air Sampling and Analysis

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID:	AA 102119
Client:	Con Ed	Outdoor/Indoor:	Outdoor
Project:	E. 11 th Str. Jacob Riis	Sample Intake Height:	4 ft
Location:	1115 - Fence SE of Bldg	Miscellaneous Equipment:	
Project #:	3000 5328	Time On/Off:	0818 - 1615
Samplers:	AR / RA	Subcontractor:	NA

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
818	-30					0
1144	-20					0
						0
1615	-6					0

SUMMA Canister Information:

Size (circle one): 1 L ☒ 6 L


Canister ID: 11631

Flow Controller ID: 09906

General Observations/Notes:

SE of Building on the Fence

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID:	JR-1115-IA-1
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	E. 11th St. Metro Bus	Sample Intake Height:	3 ft
Location:	1115	Miscellaneous Equipment:	—
Project #:	3000 5328	Time On/Off:	0817 - 1631
Samplers:	AR / RA	Subcontractor:	N/A

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0817	-29					0
1140	-20					0
						0
1631	-5					0

SUMMA Canister Information:

Size (circle one): 1 L 6L

Canister ID: 11559

Flow Controller ID: 11582


General Observations/Notes:

Across from Cabinet Room (No key to cabinet room). 10 min Mover @ 8:28 to Cabinet Room.

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

ARCADIS

Appendix B - Ambient Air Sampling and Analysis

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: JR-1115-IA-2	
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	E. 11 th Str. Jacob Reig	Sample Intake Height:	4 ft
Location:	1115 Plaster Room	Miscellaneous Equipment:	—
Project #:	30005328	Time On/Off:	0804 - 1614
Samplers:	AR / RE	Subcontractor:	N/A

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (Inches of H2O)	PID (ppm or ppb)
0804	-29					0
1142	-18					6
						9
1614	-3					0

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 11029

Flow Controller ID: 11990


General Observations/Notes:

Plaster Room
Fan off
Break room for employees (lockers, Bathroom, cleaning chemicals, etc.)

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

ARCADIS

Appendix B - Ambient Air Sampling and Analysis

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: <u>IR-1115-IA-3</u>	
Client:	<u>Con Ed</u>	Outdoor/Indoor:	<u>Indoor</u>
Project:	<u>E. 11th Str. Jacob Reig</u>	Sample Intake Height:	<u>5ft</u>
Location:	<u>1115 - Tank Room</u>	Miscellaneous Equipment:	<u>—</u>
Project #:	<u>30005328</u>	Time On/Off:	<u>0743 - 1630</u>
Samplers:	<u>AR / RA</u>	Subcontractor:	<u>N/A</u>

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
<u>0743</u>	<u>-30</u>					<u>0ppb</u>
<u>11:39</u>	<u>-18</u>					<u>0</u>
						<u>0</u>
<u>1630</u>	<u>-2</u>					<u>0</u>

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 10562

Flow Controller ID: 09654


General Observations/Notes:

<u>Steam in the room - Tank Room</u>

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

ARCADIS

Appendix B - Ambient Air Sampling and Analysis

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: <u>YR-1115-IA-4</u>	
Client:	<u>Com Ed</u>	Outdoor/Indoor:	<u>Indoor</u>
Project:	<u>E. 11th St. - Jacob Reiss</u>	Sample Intake Height:	<u>4 ft</u>
Location:	<u>115 - East Storage</u>	Miscellaneous Equipment:	<u>—</u>
Project #:	<u>32005328</u>	Time On/Off:	<u>0750 - 1613</u>
Samplers:	<u>AR / RA</u>	Subcontractor:	<u>NA</u>

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0750	-3.0					0
1146	-1.9					0
						0
1613	-4					0

SUMMA Canister Information:

Size (circle one): 1 L (6 L)

Canister ID: 10402


Flow Controller ID: 11497

General Observations/Notes:

<u>Storage Room by APT. DIST. PANEL</u>

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

11/1/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: <u>AA-110119</u>	
Client:	<u>CONF</u>	Outdoor/Indoor:	<u>out door</u>
Project:	<u>E. 11th St</u>	Sample Intake Height:	<u>3ft</u>
Location:	<u>Bldg. 1223</u>	Miscellaneous Equipment:	<u>-</u>
Project #:	<u>30005328</u>	Time On/Off:	<u>7:48 / 1503</u>
Samplers:	<u>AR/RA</u>	Subcontractor:	<u>-</u>

Instrument Readings:


Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0748	-30					0
1035	-24					8
1503	-6					

SUMMA Canister Information:Size (circle one): 1 L 6LCanister ID: 09672Flow Controller ID: 10049General Observations/Notes:

<u>SW corner of Bldg. 1223.</u>

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

11/1/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: JR-1223-FA-41	
Client:	Can Ed	Outdoor/Indoor:	Indoor
Project:	E. 11th St.	Sample Intake Height:	3 ft
Location:	Blk 1223	Miscellaneous Equipment:	-
Project #:	30005328	Time On/Off:	0720/1532
Samplers:	AR/RA	Subcontractor:	

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0720	-30					0
1036	-22					0
1036	-21					0
1532	-5					0
1532	-4					0

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 09928

Flow Controller ID: 10301

DUP-110119 can: 11676
 on/off: 0720/1532 controller: 11549
 PSI: -30/-4

General Observations/Notes:


DUP-110119

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

ARCADIS

Appendix B - Ambient Air Sampling and Analysis

11/1/19

 ARCADIS <small>Infrastructure, environment, buildings</small>		Indoor/Ambient Air Sample Collection Log	
		Sample ID:	JR-1223-IA-3
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	E. 11th St. Jacob Ries	Sample Intake Height:	3ft
Location:	Bldg 1223,	Miscellaneous Equipment:	-
Project #:	30605328	Time On/Off:	0726 / 14:58
Samplers:	NR/RA	Subcontractor:	-

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
0726 1038 1038	1038 -30 -6					0
14:58	-6					0
14:58	-6					0

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 10685


Flow Controller ID: 10140

General Observations/Notes:

NE corner of basement.
Dirt floors. Dead mouse 2ft from canister. Rat poison & traps all over the basement.

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

11/1/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: JR-1223-IA-2	
Client:	Con Ed	Outdoor/Indoor:	Indoor
Project:	E. 11 th Str. Jacobo Reis	Sample Intake Height:	3 ft
Location:	1223 / NW Storage	Miscellaneous Equipment:	—
Project #:	3000 5328	Time On/Off:	7:23 / 14:55
Samplers:	AR / RA	Subcontractor:	—

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
7:23	-30					0
10:37	-20					0
14:55	-6					

SUMMA Canister Information:Size (circle one): 1 L 6 L

Canister ID: 09872

Flow Controller ID: 11815

General Observations/Notes:

NW Storage room. Dirt floor. Air vents on 2 sides. Dusty. Rodent poison was set around the room.

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).

ARCADIS

Appendix B - Ambient Air Sampling and Analysis

11/1/19

 ARCADIS Infrastructure, environment, buildings		Indoor/Ambient Air Sample Collection Log	
		Sample ID: <u>IR-1223-IA-1</u>	
Client:	<u>Con Ed</u>	Outdoor/Indoor:	<u>Indoor</u>
Project:	<u>E. 11th St. Jacob Reis</u>	Sample Intake Height:	<u>5 ft</u>
Location:	<u>1223</u>	Miscellaneous Equipment:	<u>—</u>
Project #:	<u>30005328</u>	Time On/Off:	<u>1:30 / 14:59</u>
Samplers:	<u>AR / RA</u>	Subcontractor:	<u>—</u>

Instrument Readings:

Time	Canister Pressure (inches of HG)	Temperature (F or C)	Relative Humidity (%)	Air Speed (ft/min)	Pressure Differential (inches of H2O)	PID (ppm or ppb)
<u>7:30</u>	<u>~ 28</u>					<u>0</u>
<u>10:40</u>	<u>~ 18</u>					<u>0</u>
<u>14:59</u>	<u>~ 4</u>					

SUMMA Canister Information:

Size (circle one): 1 L 6 L

Canister ID: 34001785

Flow Controller ID: 11938

General Observations/Notes:

<u>Sewer water flooded the storage room. General sign of confined space awareness hanging on the door to the room.</u> <u>Pesticide set out all over building.</u>

Please record current weather information including wind speed and direction, ambient temperature, barometric pressure, and relative humidity via suitable information source (e.g., weatherunderground.com).



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

798 Cromwell Park Dr.
Suite R & S
Glen Burnie, MD 21061

Pine Environmental Services, Inc.

Instrument ID 4511
Description ppbRAE
Calibrated 10/23/2019 1:01:28PM

Manufacturer Rae Systems	State Certified
Model Number PGM-7240	Status Pass
Serial Number/ Lot Number 250-101118	Temp °C 23
Location Maryland	Humidity % 45
Department	

Calibration Specifications

Group # 1	Range Acc % 3.0000						
Group Name Isobutylene	Reading Acc % 3.0000						
Stated Accy Pct of Reading Range	Plus/Minus 0.00						
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
10.00 / 10.00	PPM	10.00	PPM	9.86	10.00	0.00%	Pass

Test Instruments Used During the Calibration

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>(As Of Cal Entry Date)</u> <u>Next Cal Date /</u> <u>Last Cal Date/ Expiration Date</u> <u>Opened Date</u>
MD ISO 10PPM	MD ISO 10PPM	Pine	31716	IBI-248-10-7	9/10/2022
IBI-248-10-7	IBI-248-10-7	Environmental Services, Inc.			

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Andrea Henderson

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

INSTRUMENT CALIBRATION FORM

Project CON Ed East 11th Street
 Project No. 36005328.00005
 Site Location New York, NY
 Date 10/29/19
 Time 0730
 Prepared by D. Corbett

☐ Multiprobe Y&E 600 TL
 Model: 650 mD
 Serial:

☐ Turbidity Meter
 Model:
 Serial:

☐ Model:
 Serial:

☐ Model:
 Serial:

☐ Multiprobe
 Model:
 Serial:

☐ Turbidity Meter
 Model:
 Serial:

☐ Model:
 Serial:

☐ Model:
 Serial:

☒ PID MiniRAE300
 Model:
 Serial:

☐ PID
 Model:
 Serial:

☐ pH Cond Temp
 Model:
 Serial:

☐ Rental
 Model:
 Serial:

Check appropriate box for equipment calibrated. If two similar items are calibrated, please note two checks under calibration successful

Parameter	Value	Calibration Successful
PID (ppmv)		
Zero	0.0	✓
Span	100	✓

Parameter	Calibration Successful
D.O.	
100% Saturated Air	✓
Barometer Adjustment	
Elevation Adjustment	

ph (si Units)	Value	Calibration Successful
4.00	4.0	✓
7.00	7.0	✓
10.00		

* ORP (Mv)	Calibration Successful
Hydroquinone (240) (Black)	✓
Zobel Solution (237) (yellow)	
Temperature Based Chart Calibration	
* Adjusted	

Conductivity (umhos)	Value	Calibration Successful
84 umhos		
1413 umhos	1.413	✓
Other		

* No adjustment on some meters just a probe check, others are adjustable

Turbidity (NTU)	Value	Calibration Successful
1.0 NTU		
10 NTU		
40 NTU		
Other		

INSTRUMENT CALIBRATION FORM

Project Con Ed East 11th St.
 Project No. 30005328.00505
 Site Location New York, New York
 Date 10/30/19
 Time 0700
 Prepared by Dylan Corbett

<input type="checkbox"/> Multiprobe Model: Serial:	<input type="checkbox"/> Turbidity Meter Model: Serial:	<input type="checkbox"/> Model: Serial:	<input type="checkbox"/> Model: Serial:
<input type="checkbox"/> Multiprobe Model: Serial:	<input type="checkbox"/> Turbidity Meter Model: Serial:	<input type="checkbox"/> Model: Serial:	<input type="checkbox"/> Model: Serial:
<input checked="" type="checkbox"/> PID <u>Mini RAE2000</u> Model: <u>(PPO RAE)</u> Serial: <u>#9511</u>	<input type="checkbox"/> PID Model: Serial:	<input type="checkbox"/> pH Cond Temp Model: Serial:	<input type="checkbox"/> Rental Model: Serial:

Check appropriate box for equipment calibrated. If two similar items are calibrated, please note two checks under calibration successful

Parameter	Value	Calibration Successful
PID (ppmv)		
Zero	<u>0</u>	<input checked="" type="checkbox"/>
Span	<u>100</u>	<input checked="" type="checkbox"/>

ph (si Units)	Value	Calibration Successful
4.00		
7.00		
10.00		

Conductivity (umhos)	Value	Calibration Successful
84 umhos		
1413 umhos		
Other		

Turbidity (NTU)	Value	Calibration Successful
1.0 NTU		
10 NTU		
40 NTU		
Other		

Parameter	Calibration Successful
D.O.	
100% Saturated Air	
Barometer Adjustment	
Elevation Adjustment	

* ORP (Mv)	Calibration Successful
Hydroquinone (240) (Black)	
Zobel Solution (237) (yellow)	
Temperature Based Chart Calibration	
* Adjusted	

* No adjustment on some meters just a probe check, others are adjustable

INSTRUMENT CALIBRATION FORM

Project Can Ed E11 St
 Project No. 30005328.00005
 Site Location E11th St / Jacob Riis Housing
 Date 10/31/19
 Time 09:45
 Prepared by R. Arnold

☐ Multiprobe
 Model:
 Serial:

☐ Turbidity Meter
 Model:
 Serial:

☐ Model:
 Serial:

☐ Model:
 Serial:

☐ Multiprobe
 Model:
 Serial:

☐ Turbidity Meter
 Model:
 Serial:

☐ Model:
 Serial:

☐ Model:
 Serial:

☒ PID ^{Mini RAE 3000}
 Model: (PPO RAE)
 Serial: 4511

☐ PID
 Model:
 Serial:

☐ pH Cond Temp
 Model:
 Serial:

☐ Rental
 Model:
 Serial:

Check appropriate box for equipment calibrated. If two similar items are calibrated, please note two checks under calibration successful

Parameter PID (ppmv)	Value	Calibration Successful
Zero	①	✓
Span		

ph (si Units)	Value	Calibration Successful
4.00		
7.00		
10.00		

Conductivity (umhos)	Value	Calibration Successful
84 umhos		
1413 umhos		
Other		

Turbidity (NTU)	Value	Calibration Successful
1.0 NTU		
10 NTU		
40 NTU		
Other		

Parameter D.O.	Calibration Successful
100% Saturated Air	
Barometer Adjustment	
Elevation Adjustment	

* ORP (Mv)	Calibration Successful
Hydroquinone (240) (Black)	
Zobel Solution (237) (yellow)	
Temperature Based Chart Calibration	
* Adjusted	

*** No adjustment on some meters just a probe check, others are adjustable**

INSTRUMENT CALIBRATION FORM

Project Con Ed / Jacob Riis Housing / E 11th St.
 Project No. 30005328
 Site Location Ave / E 11 St, New York, NY
 Date 11/1/19
 Time 10:53
 Prepared by R. Arnold

☐ Multiprobe
 Model:
 Serial:

☐ Turbidity Meter
 Model:
 Serial:

☐ Model:
 Serial:

☐ Model:
 Serial:

☐ Multiprobe
 Model:
 Serial:

☐ Turbidity Meter
 Model:
 Serial:

☐ Model:
 Serial:

☐ Model:
 Serial:

☒ PID MiniRae 2000
 Model:
 Serial: 4511

☐ PID
 Model:
 Serial:

☐ pH Cond Temp
 Model:
 Serial:

☐ Rental
 Model:
 Serial:

Check appropriate box for equipment calibrated. If two similar items are calibrated, please note two checks under calibration successful

Parameter PID (ppmv)	Value	Calibration Successful
Zero	-	✓
Span		

Parameter D.O.	Calibration Successful
100% Saturated Air	
Barometer Adjustment	
Elevation Adjustment	

ph (si Units)	Value	Calibration Successful
4.00		
7.00		
10.00		

* ORP (Mv)	Calibration Successful
Hydroquinone (240) (Black)	
Zobel Solution (237) (yellow)	
Temperature Based Chart Calibration	
* Adjusted	

Conductivity (umhos)	Value	Calibration Successful
84 umhos		
1413 umhos		
Other		

* No adjustment on some meters just a probe check, others are adjustable

Turbidity (NTU)	Value	Calibration Successful
1.0 NTU		
10 NTU		
40 NTU		
Other		

APPENDIX D

Data Usability Summary Reports (DUSRs)



Consolidated Edison Company of New York, Inc. – East 11th Street Site

DATA USABILITY SUMMARY REPORT

New York City, New York

Volatile Organic Compound (VOC) TO-15 Analysis

SDG #140-17191-1

Analyses Performed By:
Eurofins-TestAmerica Knoxville
Knoxville, Tennessee

Report #34800R
Review Level: Tier III
Project: 30005328.00002



DATA USABILITY SUMMARY REPORT

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 140-17191-1 for samples collected in association with the with the Con Edison East 11th Street site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis					
						VOC	SVOC	PCB	EPH	ME T	MISC
140-17191-1	AA 102919-20191029	140-17191-1	Air	10/29/2019		X					
	JR-1141-IA-1-20191029	140-17191-2	Air	10/29/2019		X					
	JR-1141-IA-3-20191029	140-17191-3	Air	10/29/2019		X					
	JR-1141-IA-2-20191029	140-17191-4	Air	10/29/2019		X					
	AA 103019-20191030	140-17191-5	Air	10/30/2019		X					
	JR-178-IA-1-20191030	140-17191-6	Air	10/30/2019		X					
	JR-178-IA-2-20191030	140-17191-7	Air	10/30/2019		X					
	JR-178-IA-3-20191030	140-17191-8	Air	10/30/2019		X					
	JR-170-IA-3-20191030	140-17191-9	Air	10/30/2019		X					
	JR-170-IA-4-20191030	140-17191-10	Air	10/30/2019		X					

DATA USABILITY SUMMARY REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of Quality Assurance or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

DATA USABILITY SUMMARY REPORT

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II SOP HW-31- Validating Air Samples Volatile Organic Analysis of Ambient Air In Canister by Method TO-15 of October 2006, New York State DEC Analytical Method ASP 2005 TO-15 (QA/QC Criteria R9 TO-15), NYSDEC Modifications to R9 TO-15 QA/QC Criteria October 2009.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA USABILITY SUMMARY REPORT

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation	Return Canister Pressure
USEPA TO-15	Air	30 days from collection to analysis	Ambient Temperature	< -1" Hg

All samples were analyzed within the specified holding time and canister return pressure / vacuum criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
AA 102919-20191029 JR-1141-IA-1-20191029 JR-1141-IA-3-20191029 AA 103019-20191030 JR-178-IA-1-20191030 JR-178-IA-2-20191030 JR-178-IA-3-20191030 JR-170-IA-4-20191030	Methylene Chloride	Detected sample results >RL and <BAL	"UB" at detected sample concentration

Note:

RL Reporting limit

DATA USABILITY SUMMARY REPORT

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
JR-1141-IA-1-20191029	ICAL %RSD	Acetone	32.8%
JR-1141-IA-3-20191029	CCV %D	Acetone	30.1%
JR-1141-IA-2-20191029		n-Butane	32.4%
AA 103019-20191030	CCV %D	n-Butane	32.4%
AA 102919-20191029	CCV %D	2,3-Dimethylpentane	30.7%
JR-178-IA-1-20191030		4-Methyl-2-pentanone (MIBK)	30.5%
JR-178-IA-2-20191030			
JR-178-IA-3-20191030			
JR-170-IA-3-20191030			
JR-170-IA-4-20191030			

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

DATA USABILITY SUMMARY REPORT

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 30% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >30% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >30% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit a percent recovery within the established acceptance limits of 70% to 130%.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the established acceptance limits of 70% to 130% (60% to 140% for poor responding compounds).

Sample locations associated with LCS analysis exhibiting recoveries outside of the control limits presented in the following table.

DATA USABILITY SUMMARY REPORT

Sample Locations	Compound	LCS Recovery
AA 102919-20191029 JR-178-IA-1-20191030 JR-178-IA-2-20191030 JR-178-IA-3-20191030 JR-170-IA-3-20191030 JR-170-IA-4-20191030	2,3-Dimethylpentane	>UL

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of an LCS deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL) 130%	Non-detect	No Action
	Detect	J
< the lower control limit (LL) 70% but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 50% for air matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

A field duplicate analysis was not performed on a sample location within this SDG.

9. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

10. System Performance and Overall Assessment

Note : The “CI” qualifier was removed and replaced with a “J” qualifier to indicate that the detected compound results for the associated samples mentioned above are estimated (potential high bias).

- The laboratory qualified the detected Acetone results for sample locations AA 102919-20191029, JR-1141-IA-1-20191029, JR-1141-IA-2-20191029, AA 103019-20191030, JR-178-IA-2-20191030, JR-178-IA-3-20191030 and JR-170-IA-4-20191030 with a “CI” qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.
- The laboratory qualified the detected Chloromethane results for sample locations JR-1141-IA-1-20191029, JR-1141-IA-3-20191029, AA 103019-20191030, JR-178-IA-3-20191030 and JR-170-IA-4-

DATA USABILITY SUMMARY REPORT

20191030 with a “CI” qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.

- The laboratory qualified the detected Propene results for sample locations AA 102919-20191029, JR-1141-IA-1-20191029, JR-1141-IA-2-20191029, AA 103019-20191030, JR-178-IA-1-20191030, JR-178-IA-2-20191030, JR-178-IA-3-20191030, JR-170-IA-3-20191030 and JR-170-IA-4-20191030 with a “CI” qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.
- The laboratory qualified the detected 1,2,3-Trimethylbenzene result for sample location JR-178-IA-2-20191030 with a “CI” qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA USABILITY SUMMARY REPORT

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: TO-15	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Canister return pressure (<-1"Hg)		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X	X			
B. Equipment blanks					X	
C. Trip blanks					X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)					X	
LCS/LCSD Precision (RPD)					X	
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X	X			
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		

DATA USABILITY SUMMARY REPORT

VOCs: TO-15	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

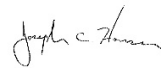
Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	DRO/ GRO	Diss Gases	MET	MISC	
140-17191-1	10/29/2019	USEPA TO-15	AA 102919-20191029	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, CCAL %D, Associated Blanks
	10/29/2019	USEPA TO-15	JR-1141-IA-1-20191029	Air	No	--	--	--	--	VOC: Compound Identification, ICAL %RSD, CCAL %D, Associated Blanks
	10/29/2019	USEPA TO-15	JR-1141-IA-3-20191029	Air	No	--	--	--	--	VOC: Compound Identification, ICAL %RSD, CCAL %D, Associated Blanks
	10/29/2019	USEPA TO-15	JR-1141-IA-2-20191029	Air	No	--	--	--	--	VOC: Compound Identification, ICAL %RSD, CCAL %D
	10/30/2019	USEPA TO-15	AA 103019-20191030	Air	No	--	--	--	--	VOC: Compound Identification, ICAL %RSD, CCAL %D, Associated Blanks
	10/30/2019	USEPA TO-15	JR-178-IA-1-20191030	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, CCAL %D, Associated Blanks
	10/30/2019	USEPA TO-15	JR-178-IA-2-20191030	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, CCAL %D, Associated Blanks
	10/30/2019	USEPA TO-15	JR-178-IA-3-20191030	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, CCAL %D, Associated Blanks
	10/30/2019	USEPA TO-15	JR-170-IA-3-20191030	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, CCAL %D
	10/30/2019	USEPA TO-15	JR-170-IA-4-20191030	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, CCAL %D, Associated Blanks

Note:

Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:



DATE: January 28, 2020

PEER REVIEW: Dennis Capria

DATE: January 29, 2020



**CHAIN OF CUSTODY
CORRECTED SAMPLE ANALYSIS DATA
SHEETS**



Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: AA 102919

Lab Sample ID: 140-17191-1

Date Collected: 10/29/19 16:32

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/07/19 04:19	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/07/19 04:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.080	0.0080	ppb v/v			11/07/19 04:19	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 04:19	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 04:19	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/07/19 04:19	1
1,2,3-Trimethylbenzene	ND		0.080	0.036	ppb v/v			11/07/19 04:19	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/07/19 04:19	1
1,2,4-Trimethylbenzene	0.095		0.080	0.020	ppb v/v			11/07/19 04:19	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/07/19 04:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/07/19 04:19	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/07/19 04:19	1
1,2-Dichloroethane	0.022	J	0.080	0.010	ppb v/v			11/07/19 04:19	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/07/19 04:19	1
1,3,5-Trimethylbenzene	0.051	J	0.080	0.022	ppb v/v			11/07/19 04:19	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/07/19 04:19	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/07/19 04:19	1
1,4-Dichlorobenzene	0.021	J	0.080	0.016	ppb v/v			11/07/19 04:19	1
1,4-Dioxane	0.061	J	0.20	0.030	ppb v/v			11/07/19 04:19	1
2,2,4-Trimethylpentane	0.15	J	0.20	0.0080	ppb v/v			11/07/19 04:19	1
2,3-Dimethylpentane	0.046	J	0.080	0.026	ppb v/v			11/07/19 04:19	1
2-Butanone (MEK)	0.32		0.32	0.073	ppb v/v			11/07/19 04:19	1
2-Hexanone	0.022	J	0.20	0.016	ppb v/v			11/07/19 04:19	1
2-Methylbutane	1.1		0.20	0.063	ppb v/v			11/07/19 04:19	1
2-Methylpentane	0.27		0.080	0.014	ppb v/v			11/07/19 04:19	1
4-Ethyltoluene	0.056	J	0.16	0.021	ppb v/v			11/07/19 04:19	1
4-Methyl-2-pentanone (MIBK)	0.74	J	0.20	0.054	ppb v/v			11/07/19 04:19	1
Acetone	3.1	et	2.0	0.57	ppb v/v			11/07/19 04:19	1
Benzene	0.22		0.080	0.0080	ppb v/v			11/07/19 04:19	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/07/19 04:19	1
Bromodichloromethane	ND		0.080	0.018	ppb v/v			11/07/19 04:19	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/07/19 04:19	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/07/19 04:19	1
Carbon disulfide	0.068	J	0.20	0.011	ppb v/v			11/07/19 04:19	1
Carbon tetrachloride	0.078		0.032	0.0070	ppb v/v			11/07/19 04:19	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/07/19 04:19	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/07/19 04:19	1
Chloroform	0.039	J	0.080	0.0070	ppb v/v			11/07/19 04:19	1
Chloromethane	0.55		0.20	0.066	ppb v/v			11/07/19 04:19	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/07/19 04:19	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/07/19 04:19	1
Cyclohexane	0.12	J	0.20	0.023	ppb v/v			11/07/19 04:19	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/07/19 04:19	1
Dichlorodifluoromethane	0.53		0.080	0.014	ppb v/v			11/07/19 04:19	1
Ethylbenzene	0.12		0.080	0.013	ppb v/v			11/07/19 04:19	1
Heptane	0.11	J	0.20	0.014	ppb v/v			11/07/19 04:19	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/07/19 04:19	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: AA 102919

Lab Sample ID: 140-17191-1

Date Collected: 10/29/19 16:32

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.38		0.20	0.013	ppb v/v			11/07/19 04:19	1
Indane	ND		0.080	0.035	ppb v/v			11/07/19 04:19	1
Indene	ND		0.16	0.039	ppb v/v			11/07/19 04:19	1
Isopropyl alcohol	1.2		0.80	0.22	ppb v/v			11/07/19 04:19	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/07/19 04:19	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/07/19 04:19	1
Methylene Chloride	1.5	B-UB	0.40	0.16	ppb v/v			11/07/19 04:19	1
m-Xylene & p-Xylene	0.46		0.080	0.029	ppb v/v			11/07/19 04:19	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/07/19 04:19	1
n-Butane	2.7		0.16	0.083	ppb v/v			11/07/19 04:19	1
n-Decane	0.14	J	0.40	0.038	ppb v/v			11/07/19 04:19	1
n-Dodecane	0.066	J	0.40	0.064	ppb v/v			11/07/19 04:19	1
n-Octane	0.049	J	0.16	0.016	ppb v/v			11/07/19 04:19	1
Nonane	0.060	J	0.20	0.018	ppb v/v			11/07/19 04:19	1
n-Undecane	0.057	J	0.40	0.048	ppb v/v			11/07/19 04:19	1
o-Xylene	0.15		0.080	0.015	ppb v/v			11/07/19 04:19	1
Pentane	0.60		0.40	0.079	ppb v/v			11/07/19 04:19	1
Propene	1.1	CL	1.0	1.0	ppb v/v			11/07/19 04:19	1
Styrene	0.10		0.080	0.024	ppb v/v			11/07/19 04:19	1
Tetrachloroethene	0.23		0.080	0.0070	ppb v/v			11/07/19 04:19	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/07/19 04:19	1
Thiophene	ND		0.080	0.011	ppb v/v			11/07/19 04:19	1
Toluene	0.91		0.12	0.078	ppb v/v			11/07/19 04:19	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/07/19 04:19	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/07/19 04:19	1
Trichloroethene	0.013	J	0.036	0.0060	ppb v/v			11/07/19 04:19	1
Trichlorofluoromethane	0.22		0.080	0.011	ppb v/v			11/07/19 04:19	1
Vinyl chloride	0.037	J	0.040	0.026	ppb v/v			11/07/19 04:19	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/07/19 04:19	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/07/19 04:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	0.61	0.061	ug/m3			11/07/19 04:19	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/07/19 04:19	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/07/19 04:19	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/07/19 04:19	1
1,2,3-Trimethylbenzene	ND		0.39	0.18	ug/m3			11/07/19 04:19	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/07/19 04:19	1
1,2,4-Trimethylbenzene	0.47		0.39	0.098	ug/m3			11/07/19 04:19	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/07/19 04:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/07/19 04:19	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/07/19 04:19	1
1,2-Dichloroethane	0.090	J	0.32	0.040	ug/m3			11/07/19 04:19	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/07/19 04:19	1
1,3,5-Trimethylbenzene	0.25	J	0.39	0.11	ug/m3			11/07/19 04:19	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/07/19 04:19	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/07/19 04:19	1
1,4-Dichlorobenzene	0.13	J	0.48	0.096	ug/m3			11/07/19 04:19	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: AA 102919

Lab Sample ID: 140-17191-1

Date Collected: 10/29/19 16:32

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.22	J	0.72	0.11	ug/m3			11/07/19 04:19	1
2,2,4-Trimethylpentane	0.68	J	0.93	0.037	ug/m3			11/07/19 04:19	1
2,3-Dimethylpentane	0.19	J	0.33	0.11	ug/m3			11/07/19 04:19	1
2-Butanone (MEK)	0.93		0.94	0.22	ug/m3			11/07/19 04:19	1
2-Hexanone	0.089	J	0.82	0.066	ug/m3			11/07/19 04:19	1
2-Methylbutane	3.3		0.59	0.19	ug/m3			11/07/19 04:19	1
2-Methylpentane	0.96		0.28	0.049	ug/m3			11/07/19 04:19	1
4-Ethyltoluene	0.28	J	0.79	0.10	ug/m3			11/07/19 04:19	1
4-Methyl-2-pentanone (MIBK)	3.0	J	0.82	0.22	ug/m3			11/07/19 04:19	1
Acetone	7.5	et	4.8	1.3	ug/m3			11/07/19 04:19	1
Benzene	0.69		0.26	0.026	ug/m3			11/07/19 04:19	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/07/19 04:19	1
Bromodichloromethane	ND		0.54	0.12	ug/m3			11/07/19 04:19	1
Bromoform	ND		0.83	0.093	ug/m3			11/07/19 04:19	1
Bromomethane	ND		0.31	0.085	ug/m3			11/07/19 04:19	1
Carbon disulfide	0.21	J	0.62	0.034	ug/m3			11/07/19 04:19	1
Carbon tetrachloride	0.49		0.20	0.044	ug/m3			11/07/19 04:19	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/07/19 04:19	1
Chloroethane	ND		0.21	0.077	ug/m3			11/07/19 04:19	1
Chloroform	0.19	J	0.39	0.034	ug/m3			11/07/19 04:19	1
Chloromethane	1.1		0.41	0.14	ug/m3			11/07/19 04:19	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/07/19 04:19	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/07/19 04:19	1
Cyclohexane	0.40	J	0.69	0.079	ug/m3			11/07/19 04:19	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/07/19 04:19	1
Dichlorodifluoromethane	2.6		0.40	0.069	ug/m3			11/07/19 04:19	1
Ethylbenzene	0.51		0.35	0.056	ug/m3			11/07/19 04:19	1
Heptane	0.45	J	0.82	0.057	ug/m3			11/07/19 04:19	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/07/19 04:19	1
Hexane	1.3		0.70	0.046	ug/m3			11/07/19 04:19	1
Indane	ND		0.39	0.17	ug/m3			11/07/19 04:19	1
Indene	ND		0.76	0.19	ug/m3			11/07/19 04:19	1
Isopropyl alcohol	3.0		2.0	0.54	ug/m3			11/07/19 04:19	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/07/19 04:19	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/07/19 04:19	1
Methylene Chloride	5.1	B	1.4	0.56	ug/m3			11/07/19 04:19	1
m-Xylene & p-Xylene	2.0		0.35	0.13	ug/m3			11/07/19 04:19	1
Naphthalene	ND		1.0	0.40	ug/m3			11/07/19 04:19	1
n-Butane	6.5		0.38	0.20	ug/m3			11/07/19 04:19	1
n-Decane	0.83	J	2.3	0.22	ug/m3			11/07/19 04:19	1
n-Dodecane	0.46	J	2.8	0.45	ug/m3			11/07/19 04:19	1
n-Octane	0.23	J	0.75	0.075	ug/m3			11/07/19 04:19	1
Nonane	0.32	J	1.0	0.094	ug/m3			11/07/19 04:19	1
n-Undecane	0.37	J	2.6	0.31	ug/m3			11/07/19 04:19	1
o-Xylene	0.65		0.35	0.065	ug/m3			11/07/19 04:19	1
Pentane	1.8		1.2	0.23	ug/m3			11/07/19 04:19	1
Propene	2.0	et	1.7	1.7	ug/m3			11/07/19 04:19	1
Styrene	0.44		0.34	0.10	ug/m3			11/07/19 04:19	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: AA 102919

Lab Sample ID: 140-17191-1

Date Collected: 10/29/19 16:32

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.6		0.54	0.047	ug/m3			11/07/19 04:19	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/07/19 04:19	1
Thiophene	ND		0.28	0.038	ug/m3			11/07/19 04:19	1
Toluene	3.4		0.45	0.29	ug/m3			11/07/19 04:19	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/07/19 04:19	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/07/19 04:19	1
Trichloroethene	0.072	J	0.19	0.032	ug/m3			11/07/19 04:19	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/07/19 04:19	1
Vinyl chloride	0.095	J	0.10	0.066	ug/m3			11/07/19 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		60 - 140					11/07/19 04:19	1

Client Sample ID: JR-1141-IA-1

Lab Sample ID: 140-17191-2

Date Collected: 10/29/19 16:41

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/04/19 21:19	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/04/19 21:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.080	0.0080	ppb v/v			11/04/19 21:19	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/04/19 21:19	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/04/19 21:19	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/04/19 21:19	1
1,2,3-Trimethylbenzene	0.052	J	0.080	0.036	ppb v/v			11/04/19 21:19	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/04/19 21:19	1
1,2,4-Trimethylbenzene	0.081		0.080	0.020	ppb v/v			11/04/19 21:19	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/04/19 21:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/04/19 21:19	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/04/19 21:19	1
1,2-Dichloroethane	0.025	J	0.080	0.010	ppb v/v			11/04/19 21:19	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/04/19 21:19	1
1,3,5-Trimethylbenzene	0.027	J	0.080	0.022	ppb v/v			11/04/19 21:19	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/04/19 21:19	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/04/19 21:19	1
1,4-Dichlorobenzene	0.81		0.080	0.016	ppb v/v			11/04/19 21:19	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/04/19 21:19	1
2,2,4-Trimethylpentane	0.11	J	0.20	0.0080	ppb v/v			11/04/19 21:19	1
2,3-Dimethylpentane	0.045	J	0.080	0.026	ppb v/v			11/04/19 21:19	1
2-Butanone (MEK)	0.48		0.32	0.073	ppb v/v			11/04/19 21:19	1
2-Hexanone	0.035	J	0.20	0.016	ppb v/v			11/04/19 21:19	1
2-Methylbutane	1.8		0.20	0.063	ppb v/v			11/04/19 21:19	1
2-Methylpentane	0.25		0.080	0.014	ppb v/v			11/04/19 21:19	1
4-Ethyltoluene	0.058	J	0.16	0.021	ppb v/v			11/04/19 21:19	1
4-Methyl-2-pentanone (MIBK)	0.057	J	0.20	0.054	ppb v/v			11/04/19 21:19	1
Acetone	5.9	CT	2.0	0.57	ppb v/v			11/04/19 21:19	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-1

Lab Sample ID: 140-17191-2

Date Collected: 10/29/19 16:41

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.22		0.080	0.0080	ppb v/v			11/04/19 21:19	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/04/19 21:19	1
Bromodichloromethane	0.66		0.080	0.018	ppb v/v			11/04/19 21:19	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/04/19 21:19	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/04/19 21:19	1
Carbon disulfide	0.56		0.20	0.011	ppb v/v			11/04/19 21:19	1
Carbon tetrachloride	0.082		0.032	0.0070	ppb v/v			11/04/19 21:19	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/04/19 21:19	1
Chloroethane	0.032	J	0.080	0.029	ppb v/v			11/04/19 21:19	1
Chloroform	5.4		0.080	0.0070	ppb v/v			11/04/19 21:19	1
Chloromethane	0.79	CF J	0.20	0.066	ppb v/v			11/04/19 21:19	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/04/19 21:19	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/04/19 21:19	1
Cyclohexane	0.12	J	0.20	0.023	ppb v/v			11/04/19 21:19	1
Dibromochloromethane	0.056	J	0.080	0.0070	ppb v/v			11/04/19 21:19	1
Dichlorodifluoromethane	0.28		0.080	0.014	ppb v/v			11/04/19 21:19	1
Ethylbenzene	0.088		0.080	0.013	ppb v/v			11/04/19 21:19	1
Heptane	0.11	J	0.20	0.014	ppb v/v			11/04/19 21:19	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/04/19 21:19	1
Hexane	0.27		0.20	0.013	ppb v/v			11/04/19 21:19	1
Indane	ND		0.080	0.035	ppb v/v			11/04/19 21:19	1
Indene	ND		0.16	0.039	ppb v/v			11/04/19 21:19	1
Isopropyl alcohol	3.1		0.80	0.22	ppb v/v			11/04/19 21:19	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/04/19 21:19	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/04/19 21:19	1
Methylene Chloride	1.0	B UB	0.40	0.16	ppb v/v			11/04/19 21:19	1
m-Xylene & p-Xylene	0.28		0.080	0.029	ppb v/v			11/04/19 21:19	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/04/19 21:19	1
n-Butane	7.2	J	0.16	0.083	ppb v/v			11/04/19 21:19	1
n-Decane	0.24	J	0.40	0.038	ppb v/v			11/04/19 21:19	1
n-Dodecane	0.24	J	0.40	0.064	ppb v/v			11/04/19 21:19	1
n-Octane	0.045	J	0.16	0.016	ppb v/v			11/04/19 21:19	1
Nonane	0.042	J	0.20	0.018	ppb v/v			11/04/19 21:19	1
n-Undecane	0.064	J	0.40	0.048	ppb v/v			11/04/19 21:19	1
o-Xylene	0.11		0.080	0.015	ppb v/v			11/04/19 21:19	1
Pentane	0.86		0.40	0.079	ppb v/v			11/04/19 21:19	1
Propene	2.1	CF J	1.0	1.0	ppb v/v			11/04/19 21:19	1
Styrene	0.13		0.080	0.024	ppb v/v			11/04/19 21:19	1
Tetrachloroethene	0.24		0.080	0.0070	ppb v/v			11/04/19 21:19	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/04/19 21:19	1
Thiophene	ND		0.080	0.011	ppb v/v			11/04/19 21:19	1
Toluene	0.78		0.12	0.078	ppb v/v			11/04/19 21:19	1
trans-1,2-Dichloroethene	0.025	J	0.080	0.0070	ppb v/v			11/04/19 21:19	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/04/19 21:19	1
Trichloroethene	0.012	J	0.036	0.0060	ppb v/v			11/04/19 21:19	1
Trichlorofluoromethane	0.25		0.080	0.011	ppb v/v			11/04/19 21:19	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/04/19 21:19	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-1

Lab Sample ID: 140-17191-2

Date Collected: 10/29/19 16:41

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/04/19 21:19	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/04/19 21:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	0.61	0.061	ug/m3			11/04/19 21:19	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/04/19 21:19	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/04/19 21:19	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/04/19 21:19	1
1,2,3-Trimethylbenzene	0.26	J	0.39	0.18	ug/m3			11/04/19 21:19	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/04/19 21:19	1
1,2,4-Trimethylbenzene	0.40		0.39	0.098	ug/m3			11/04/19 21:19	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/04/19 21:19	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/04/19 21:19	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/04/19 21:19	1
1,2-Dichloroethane	0.10	J	0.32	0.040	ug/m3			11/04/19 21:19	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/04/19 21:19	1
1,3,5-Trimethylbenzene	0.13	J	0.39	0.11	ug/m3			11/04/19 21:19	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/04/19 21:19	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/04/19 21:19	1
1,4-Dichlorobenzene	4.9		0.48	0.096	ug/m3			11/04/19 21:19	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/04/19 21:19	1
2,2,4-Trimethylpentane	0.52	J	0.93	0.037	ug/m3			11/04/19 21:19	1
2,3-Dimethylpentane	0.18	J	0.33	0.11	ug/m3			11/04/19 21:19	1
2-Butanone (MEK)	1.4		0.94	0.22	ug/m3			11/04/19 21:19	1
2-Hexanone	0.14	J	0.82	0.066	ug/m3			11/04/19 21:19	1
2-Methylbutane	5.2		0.59	0.19	ug/m3			11/04/19 21:19	1
2-Methylpentane	0.87		0.28	0.049	ug/m3			11/04/19 21:19	1
4-Ethyltoluene	0.28	J	0.79	0.10	ug/m3			11/04/19 21:19	1
4-Methyl-2-pentanone (MIBK)	0.23	J	0.82	0.22	ug/m3			11/04/19 21:19	1
Acetone	14	GT	4.8	1.3	ug/m3			11/04/19 21:19	1
Benzene	0.71		0.26	0.026	ug/m3			11/04/19 21:19	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/04/19 21:19	1
Bromodichloromethane	4.4		0.54	0.12	ug/m3			11/04/19 21:19	1
Bromoform	ND		0.83	0.093	ug/m3			11/04/19 21:19	1
Bromomethane	ND		0.31	0.085	ug/m3			11/04/19 21:19	1
Carbon disulfide	1.7		0.62	0.034	ug/m3			11/04/19 21:19	1
Carbon tetrachloride	0.52		0.20	0.044	ug/m3			11/04/19 21:19	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/04/19 21:19	1
Chloroethane	0.084	J	0.21	0.077	ug/m3			11/04/19 21:19	1
Chloroform	26		0.39	0.034	ug/m3			11/04/19 21:19	1
Chloromethane	1.6	GT	0.41	0.14	ug/m3			11/04/19 21:19	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/04/19 21:19	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/04/19 21:19	1
Cyclohexane	0.40	J	0.69	0.079	ug/m3			11/04/19 21:19	1
Dibromochloromethane	0.48	J	0.68	0.060	ug/m3			11/04/19 21:19	1
Dichlorodifluoromethane	1.4		0.40	0.069	ug/m3			11/04/19 21:19	1
Ethylbenzene	0.38		0.35	0.056	ug/m3			11/04/19 21:19	1
Heptane	0.46	J	0.82	0.057	ug/m3			11/04/19 21:19	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/04/19 21:19	1
Hexane	0.95		0.70	0.046	ug/m3			11/04/19 21:19	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-1

Lab Sample ID: 140-17191-2

Date Collected: 10/29/19 16:41

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.39	0.17	ug/m3			11/04/19 21:19	1
Indene	ND		0.76	0.19	ug/m3			11/04/19 21:19	1
Isopropyl alcohol	7.6		2.0	0.54	ug/m3			11/04/19 21:19	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/04/19 21:19	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/04/19 21:19	1
Methylene Chloride	3.5 B UB		1.4	0.56	ug/m3			11/04/19 21:19	1
m-Xylene & p-Xylene	1.2		0.35	0.13	ug/m3			11/04/19 21:19	1
Naphthalene	ND		1.0	0.40	ug/m3			11/04/19 21:19	1
n-Butane	17 J		0.38	0.20	ug/m3			11/04/19 21:19	1
n-Decane	1.4 J		2.3	0.22	ug/m3			11/04/19 21:19	1
n-Dodecane	1.7 J		2.8	0.45	ug/m3			11/04/19 21:19	1
n-Octane	0.21 J		0.75	0.075	ug/m3			11/04/19 21:19	1
Nonane	0.22 J		1.0	0.094	ug/m3			11/04/19 21:19	1
n-Undecane	0.41 J		2.6	0.31	ug/m3			11/04/19 21:19	1
o-Xylene	0.47		0.35	0.065	ug/m3			11/04/19 21:19	1
Pentane	2.5		1.2	0.23	ug/m3			11/04/19 21:19	1
Propene	3.7 ET J		1.7	1.7	ug/m3			11/04/19 21:19	1
Styrene	0.53		0.34	0.10	ug/m3			11/04/19 21:19	1
Tetrachloroethene	1.6		0.54	0.047	ug/m3			11/04/19 21:19	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/04/19 21:19	1
Thiophene	ND		0.28	0.038	ug/m3			11/04/19 21:19	1
Toluene	2.9		0.45	0.29	ug/m3			11/04/19 21:19	1
trans-1,2-Dichloroethene	0.099 J		0.32	0.028	ug/m3			11/04/19 21:19	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/04/19 21:19	1
Trichloroethene	0.064 J		0.19	0.032	ug/m3			11/04/19 21:19	1
Trichlorofluoromethane	1.4		0.45	0.062	ug/m3			11/04/19 21:19	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/04/19 21:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140					11/04/19 21:19	1

Client Sample ID: JR-1141-IA-3

Lab Sample ID: 140-17191-3

Date Collected: 10/29/19 16:44

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/04/19 22:17	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/04/19 22:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073 J		0.080	0.0080	ppb v/v			11/04/19 22:17	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/04/19 22:17	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/04/19 22:17	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/04/19 22:17	1
1,2,3-Trimethylbenzene	0.049 J		0.080	0.036	ppb v/v			11/04/19 22:17	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/04/19 22:17	1
1,2,4-Trimethylbenzene	0.070 J		0.080	0.020	ppb v/v			11/04/19 22:17	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/04/19 22:17	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-3

Lab Sample ID: 140-17191-3

Date Collected: 10/29/19 16:44

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.018	J	0.080	0.012	ppb v/v			11/04/19 22:17	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/04/19 22:17	1
1,2-Dichloroethane	0.025	J	0.080	0.010	ppb v/v			11/04/19 22:17	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/04/19 22:17	1
1,3,5-Trimethylbenzene	0.024	J	0.080	0.022	ppb v/v			11/04/19 22:17	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/04/19 22:17	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/04/19 22:17	1
1,4-Dichlorobenzene	0.53		0.080	0.016	ppb v/v			11/04/19 22:17	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/04/19 22:17	1
2,2,4-Trimethylpentane	0.11	J	0.20	0.0080	ppb v/v			11/04/19 22:17	1
2,3-Dimethylpentane	0.040	J	0.080	0.026	ppb v/v			11/04/19 22:17	1
2-Butanone (MEK)	0.48		0.32	0.073	ppb v/v			11/04/19 22:17	1
2-Hexanone	0.039	J	0.20	0.016	ppb v/v			11/04/19 22:17	1
2-Methylbutane	2.8		0.20	0.063	ppb v/v			11/04/19 22:17	1
2-Methylpentane	0.22		0.080	0.014	ppb v/v			11/04/19 22:17	1
4-Ethyltoluene	0.069	J	0.16	0.021	ppb v/v			11/04/19 22:17	1
4-Methyl-2-pentanone (MIBK)	0.11	J	0.20	0.054	ppb v/v			11/04/19 22:17	1
Acetone	6.1	J	2.0	0.57	ppb v/v			11/04/19 22:17	1
Benzene	0.24		0.080	0.0080	ppb v/v			11/04/19 22:17	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/04/19 22:17	1
Bromodichloromethane	0.87		0.080	0.018	ppb v/v			11/04/19 22:17	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/04/19 22:17	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/04/19 22:17	1
Carbon disulfide	0.086	J	0.20	0.011	ppb v/v			11/04/19 22:17	1
Carbon tetrachloride	0.088		0.032	0.0070	ppb v/v			11/04/19 22:17	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/04/19 22:17	1
Chloroethane	0.035	J	0.080	0.029	ppb v/v			11/04/19 22:17	1
Chloroform	7.0		0.080	0.0070	ppb v/v			11/04/19 22:17	1
Chloromethane	0.86	CF	0.20	0.066	ppb v/v			11/04/19 22:17	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/04/19 22:17	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/04/19 22:17	1
Cyclohexane	0.10	J	0.20	0.023	ppb v/v			11/04/19 22:17	1
Dibromochloromethane	0.070	J	0.080	0.0070	ppb v/v			11/04/19 22:17	1
Dichlorodifluoromethane	0.28		0.080	0.014	ppb v/v			11/04/19 22:17	1
Ethylbenzene	0.095		0.080	0.013	ppb v/v			11/04/19 22:17	1
Heptane	0.11	J	0.20	0.014	ppb v/v			11/04/19 22:17	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/04/19 22:17	1
Hexane	0.28		0.20	0.013	ppb v/v			11/04/19 22:17	1
Indane	ND		0.080	0.035	ppb v/v			11/04/19 22:17	1
Indene	ND		0.16	0.039	ppb v/v			11/04/19 22:17	1
Isopropyl alcohol	2.9		0.80	0.22	ppb v/v			11/04/19 22:17	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/04/19 22:17	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/04/19 22:17	1
Methylene Chloride	0.94	B	0.40	0.16	ppb v/v			11/04/19 22:17	1
m-Xylene & p-Xylene	0.28		0.080	0.029	ppb v/v			11/04/19 22:17	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/04/19 22:17	1
n-Butane	6.5	J	0.16	0.083	ppb v/v			11/04/19 22:17	1
n-Decane	0.23	J	0.40	0.038	ppb v/v			11/04/19 22:17	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-3

Lab Sample ID: 140-17191-3

Date Collected: 10/29/19 16:44

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Dodecane	0.24	J	0.40	0.064	ppb v/v			11/04/19 22:17	1
n-Octane	0.052	J	0.16	0.016	ppb v/v			11/04/19 22:17	1
Nonane	0.043	J	0.20	0.018	ppb v/v			11/04/19 22:17	1
n-Undecane	0.065	J	0.40	0.048	ppb v/v			11/04/19 22:17	1
o-Xylene	0.10		0.080	0.015	ppb v/v			11/04/19 22:17	1
Pentane	0.76		0.40	0.079	ppb v/v			11/04/19 22:17	1
Propene	ND		1.0	1.0	ppb v/v			11/04/19 22:17	1
Styrene	0.10		0.080	0.024	ppb v/v			11/04/19 22:17	1
Tetrachloroethene	0.23		0.080	0.0070	ppb v/v			11/04/19 22:17	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/04/19 22:17	1
Thiophene	ND		0.080	0.011	ppb v/v			11/04/19 22:17	1
Toluene	0.79		0.12	0.078	ppb v/v			11/04/19 22:17	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/04/19 22:17	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/04/19 22:17	1
Trichloroethene	0.013	J	0.036	0.0060	ppb v/v			11/04/19 22:17	1
Trichlorofluoromethane	0.24		0.080	0.011	ppb v/v			11/04/19 22:17	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/04/19 22:17	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/04/19 22:17	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/04/19 22:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	0.61	0.061	ug/m3			11/04/19 22:17	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/04/19 22:17	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/04/19 22:17	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/04/19 22:17	1
1,2,3-Trimethylbenzene	0.24	J	0.39	0.18	ug/m3			11/04/19 22:17	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/04/19 22:17	1
1,2,4-Trimethylbenzene	0.34	J	0.39	0.098	ug/m3			11/04/19 22:17	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/04/19 22:17	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.13	J	0.56	0.084	ug/m3			11/04/19 22:17	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/04/19 22:17	1
1,2-Dichloroethane	0.10	J	0.32	0.040	ug/m3			11/04/19 22:17	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/04/19 22:17	1
1,3,5-Trimethylbenzene	0.12	J	0.39	0.11	ug/m3			11/04/19 22:17	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/04/19 22:17	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/04/19 22:17	1
1,4-Dichlorobenzene	3.2		0.48	0.096	ug/m3			11/04/19 22:17	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/04/19 22:17	1
2,2,4-Trimethylpentane	0.52	J	0.93	0.037	ug/m3			11/04/19 22:17	1
2,3-Dimethylpentane	0.16	J	0.33	0.11	ug/m3			11/04/19 22:17	1
2-Butanone (MEK)	1.4		0.94	0.22	ug/m3			11/04/19 22:17	1
2-Hexanone	0.16	J	0.82	0.066	ug/m3			11/04/19 22:17	1
2-Methylbutane	8.3		0.59	0.19	ug/m3			11/04/19 22:17	1
2-Methylpentane	0.79		0.28	0.049	ug/m3			11/04/19 22:17	1
4-Ethyltoluene	0.34	J	0.79	0.10	ug/m3			11/04/19 22:17	1
4-Methyl-2-pentanone (MIBK)	0.45	J	0.82	0.22	ug/m3			11/04/19 22:17	1
Acetone	15	J	4.8	1.3	ug/m3			11/04/19 22:17	1
Benzene	0.78		0.26	0.026	ug/m3			11/04/19 22:17	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-3

Lab Sample ID: 140-17191-3

Date Collected: 10/29/19 16:44

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		0.83	0.20	ug/m3			11/04/19 22:17	1
Bromodichloromethane	5.8		0.54	0.12	ug/m3			11/04/19 22:17	1
Bromoform	ND		0.83	0.093	ug/m3			11/04/19 22:17	1
Bromomethane	ND		0.31	0.085	ug/m3			11/04/19 22:17	1
Carbon disulfide	0.27	J	0.62	0.034	ug/m3			11/04/19 22:17	1
Carbon tetrachloride	0.56		0.20	0.044	ug/m3			11/04/19 22:17	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/04/19 22:17	1
Chloroethane	0.092	J	0.21	0.077	ug/m3			11/04/19 22:17	1
Chloroform	34		0.39	0.034	ug/m3			11/04/19 22:17	1
Chloromethane	1.8	CH	0.41	0.14	ug/m3			11/04/19 22:17	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/04/19 22:17	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/04/19 22:17	1
Cyclohexane	0.36	J	0.69	0.079	ug/m3			11/04/19 22:17	1
Dibromochloromethane	0.60	J	0.68	0.060	ug/m3			11/04/19 22:17	1
Dichlorodifluoromethane	1.4		0.40	0.069	ug/m3			11/04/19 22:17	1
Ethylbenzene	0.41		0.35	0.056	ug/m3			11/04/19 22:17	1
Heptane	0.46	J	0.82	0.057	ug/m3			11/04/19 22:17	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/04/19 22:17	1
Hexane	0.98		0.70	0.046	ug/m3			11/04/19 22:17	1
Indane	ND		0.39	0.17	ug/m3			11/04/19 22:17	1
Indene	ND		0.76	0.19	ug/m3			11/04/19 22:17	1
Isopropyl alcohol	7.0		2.0	0.54	ug/m3			11/04/19 22:17	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/04/19 22:17	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/04/19 22:17	1
Methylene Chloride	3.3	B-UB	1.4	0.56	ug/m3			11/04/19 22:17	1
m-Xylene & p-Xylene	1.2		0.35	0.13	ug/m3			11/04/19 22:17	1
Naphthalene	ND		1.0	0.40	ug/m3			11/04/19 22:17	1
n-Butane	15	J	0.38	0.20	ug/m3			11/04/19 22:17	1
n-Decane	1.3	J	2.3	0.22	ug/m3			11/04/19 22:17	1
n-Dodecane	1.7	J	2.8	0.45	ug/m3			11/04/19 22:17	1
n-Octane	0.24	J	0.75	0.075	ug/m3			11/04/19 22:17	1
Nonane	0.22	J	1.0	0.094	ug/m3			11/04/19 22:17	1
n-Undecane	0.41	J	2.6	0.31	ug/m3			11/04/19 22:17	1
o-Xylene	0.43		0.35	0.065	ug/m3			11/04/19 22:17	1
Pentane	2.2		1.2	0.23	ug/m3			11/04/19 22:17	1
Propene	ND		1.7	1.7	ug/m3			11/04/19 22:17	1
Styrene	0.44		0.34	0.10	ug/m3			11/04/19 22:17	1
Tetrachloroethene	1.5		0.54	0.047	ug/m3			11/04/19 22:17	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/04/19 22:17	1
Thiophene	ND		0.28	0.038	ug/m3			11/04/19 22:17	1
Toluene	3.0		0.45	0.29	ug/m3			11/04/19 22:17	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/04/19 22:17	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/04/19 22:17	1
Trichloroethene	0.072	J	0.19	0.032	ug/m3			11/04/19 22:17	1
Trichlorofluoromethane	1.4		0.45	0.062	ug/m3			11/04/19 22:17	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/04/19 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140		11/04/19 22:17	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-2

Lab Sample ID: 140-17191-4

Date Collected: 10/29/19 16:41

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/04/19 23:15	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/04/19 23:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.080	0.0080	ppb v/v			11/04/19 23:15	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/04/19 23:15	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/04/19 23:15	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/04/19 23:15	1
1,2,3-Trimethylbenzene	0.041	J	0.080	0.036	ppb v/v			11/04/19 23:15	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/04/19 23:15	1
1,2,4-Trimethylbenzene	0.076	J	0.080	0.020	ppb v/v			11/04/19 23:15	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/04/19 23:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/04/19 23:15	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/04/19 23:15	1
1,2-Dichloroethane	0.022	J	0.080	0.010	ppb v/v			11/04/19 23:15	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/04/19 23:15	1
1,3,5-Trimethylbenzene	0.027	J	0.080	0.022	ppb v/v			11/04/19 23:15	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/04/19 23:15	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/04/19 23:15	1
1,4-Dichlorobenzene	0.79		0.080	0.016	ppb v/v			11/04/19 23:15	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/04/19 23:15	1
2,2,4-Trimethylpentane	0.12	J	0.20	0.0080	ppb v/v			11/04/19 23:15	1
2,3-Dimethylpentane	0.041	J	0.080	0.026	ppb v/v			11/04/19 23:15	1
2-Butanone (MEK)	0.55		0.32	0.073	ppb v/v			11/04/19 23:15	1
2-Hexanone	0.049	J	0.20	0.016	ppb v/v			11/04/19 23:15	1
2-Methylbutane	2.0		0.20	0.063	ppb v/v			11/04/19 23:15	1
2-Methylpentane	0.25		0.080	0.014	ppb v/v			11/04/19 23:15	1
4-Ethyltoluene	0.075	J	0.16	0.021	ppb v/v			11/04/19 23:15	1
4-Methyl-2-pentanone (MIBK)	0.082	J	0.20	0.054	ppb v/v			11/04/19 23:15	1
Acetone	7.5	CF	2.0	0.57	ppb v/v			11/04/19 23:15	1
Benzene	0.24		0.080	0.0080	ppb v/v			11/04/19 23:15	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/04/19 23:15	1
Bromodichloromethane	0.54		0.080	0.018	ppb v/v			11/04/19 23:15	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/04/19 23:15	1
Bromomethane	0.022	J	0.080	0.022	ppb v/v			11/04/19 23:15	1
Carbon disulfide	0.19	J	0.20	0.011	ppb v/v			11/04/19 23:15	1
Carbon tetrachloride	0.084		0.032	0.0070	ppb v/v			11/04/19 23:15	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/04/19 23:15	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/04/19 23:15	1
Chloroform	4.4		0.080	0.0070	ppb v/v			11/04/19 23:15	1
Chloromethane	0.71		0.20	0.066	ppb v/v			11/04/19 23:15	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/04/19 23:15	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/04/19 23:15	1
Cyclohexane	0.11	J	0.20	0.023	ppb v/v			11/04/19 23:15	1
Dibromochloromethane	0.043	J	0.080	0.0070	ppb v/v			11/04/19 23:15	1
Dichlorodifluoromethane	0.26		0.080	0.014	ppb v/v			11/04/19 23:15	1
Ethylbenzene	0.093		0.080	0.013	ppb v/v			11/04/19 23:15	1
Heptane	0.14	J	0.20	0.014	ppb v/v			11/04/19 23:15	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/04/19 23:15	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-2

Lab Sample ID: 140-17191-4

Date Collected: 10/29/19 16:41

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.46		0.20	0.013	ppb v/v			11/04/19 23:15	1
Indane	ND		0.080	0.035	ppb v/v			11/04/19 23:15	1
Indene	ND		0.16	0.039	ppb v/v			11/04/19 23:15	1
Isopropyl alcohol	2.5		0.80	0.22	ppb v/v			11/04/19 23:15	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/04/19 23:15	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/04/19 23:15	1
Methylene Chloride	2.4		0.40	0.16	ppb v/v			11/04/19 23:15	1
m-Xylene & p-Xylene	0.30		0.080	0.029	ppb v/v			11/04/19 23:15	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/04/19 23:15	1
n-Butane	15		0.16	0.083	ppb v/v			11/04/19 23:15	1
n-Decane	0.19	J	0.40	0.038	ppb v/v			11/04/19 23:15	1
n-Dodecane	0.21	J	0.40	0.064	ppb v/v			11/04/19 23:15	1
n-Octane	0.065	J	0.16	0.016	ppb v/v			11/04/19 23:15	1
Nonane	0.049	J	0.20	0.018	ppb v/v			11/04/19 23:15	1
n-Undecane	0.064	J	0.40	0.048	ppb v/v			11/04/19 23:15	1
o-Xylene	0.11		0.080	0.015	ppb v/v			11/04/19 23:15	1
Pentane	0.98		0.40	0.079	ppb v/v			11/04/19 23:15	1
Propene	2.5		1.0	1.0	ppb v/v			11/04/19 23:15	1
Styrene	0.12		0.080	0.024	ppb v/v			11/04/19 23:15	1
Tetrachloroethene	0.22		0.080	0.0070	ppb v/v			11/04/19 23:15	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/04/19 23:15	1
Thiophene	ND		0.080	0.011	ppb v/v			11/04/19 23:15	1
Toluene	0.81		0.12	0.078	ppb v/v			11/04/19 23:15	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/04/19 23:15	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/04/19 23:15	1
Trichloroethene	0.013	J	0.036	0.0060	ppb v/v			11/04/19 23:15	1
Trichlorofluoromethane	0.25		0.080	0.011	ppb v/v			11/04/19 23:15	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/04/19 23:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/04/19 23:15	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/04/19 23:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	0.61	0.061	ug/m3			11/04/19 23:15	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/04/19 23:15	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/04/19 23:15	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/04/19 23:15	1
1,2,3-Trimethylbenzene	0.20	J	0.39	0.18	ug/m3			11/04/19 23:15	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/04/19 23:15	1
1,2,4-Trimethylbenzene	0.37	J	0.39	0.098	ug/m3			11/04/19 23:15	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/04/19 23:15	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/04/19 23:15	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/04/19 23:15	1
1,2-Dichloroethane	0.089	J	0.32	0.040	ug/m3			11/04/19 23:15	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/04/19 23:15	1
1,3,5-Trimethylbenzene	0.13	J	0.39	0.11	ug/m3			11/04/19 23:15	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/04/19 23:15	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/04/19 23:15	1
1,4-Dichlorobenzene	4.7		0.48	0.096	ug/m3			11/04/19 23:15	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-2

Lab Sample ID: 140-17191-4

Date Collected: 10/29/19 16:41

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/04/19 23:15	1
2,2,4-Trimethylpentane	0.55	J	0.93	0.037	ug/m3			11/04/19 23:15	1
2,3-Dimethylpentane	0.17	J	0.33	0.11	ug/m3			11/04/19 23:15	1
2-Butanone (MEK)	1.6		0.94	0.22	ug/m3			11/04/19 23:15	1
2-Hexanone	0.20	J	0.82	0.066	ug/m3			11/04/19 23:15	1
2-Methylbutane	6.0		0.59	0.19	ug/m3			11/04/19 23:15	1
2-Methylpentane	0.90		0.28	0.049	ug/m3			11/04/19 23:15	1
4-Ethyltoluene	0.37	J	0.79	0.10	ug/m3			11/04/19 23:15	1
4-Methyl-2-pentanone (MIBK)	0.33	J	0.82	0.22	ug/m3			11/04/19 23:15	1
Acetone	18	et J	4.8	1.3	ug/m3			11/04/19 23:15	1
Benzene	0.77		0.26	0.026	ug/m3			11/04/19 23:15	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/04/19 23:15	1
Bromodichloromethane	3.6		0.54	0.12	ug/m3			11/04/19 23:15	1
Bromoform	ND		0.83	0.093	ug/m3			11/04/19 23:15	1
Bromomethane	0.087	J	0.31	0.085	ug/m3			11/04/19 23:15	1
Carbon disulfide	0.59	J	0.62	0.034	ug/m3			11/04/19 23:15	1
Carbon tetrachloride	0.53		0.20	0.044	ug/m3			11/04/19 23:15	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/04/19 23:15	1
Chloroethane	ND		0.21	0.077	ug/m3			11/04/19 23:15	1
Chloroform	22		0.39	0.034	ug/m3			11/04/19 23:15	1
Chloromethane	1.5		0.41	0.14	ug/m3			11/04/19 23:15	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/04/19 23:15	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/04/19 23:15	1
Cyclohexane	0.37	J	0.69	0.079	ug/m3			11/04/19 23:15	1
Dibromochloromethane	0.37	J	0.68	0.060	ug/m3			11/04/19 23:15	1
Dichlorodifluoromethane	1.3		0.40	0.069	ug/m3			11/04/19 23:15	1
Ethylbenzene	0.40		0.35	0.056	ug/m3			11/04/19 23:15	1
Heptane	0.57	J	0.82	0.057	ug/m3			11/04/19 23:15	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/04/19 23:15	1
Hexane	1.6		0.70	0.046	ug/m3			11/04/19 23:15	1
Indane	ND		0.39	0.17	ug/m3			11/04/19 23:15	1
Indene	ND		0.76	0.19	ug/m3			11/04/19 23:15	1
Isopropyl alcohol	6.1		2.0	0.54	ug/m3			11/04/19 23:15	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/04/19 23:15	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/04/19 23:15	1
Methylene Chloride	8.2	B	1.4	0.56	ug/m3			11/04/19 23:15	1
m-Xylene & p-Xylene	1.3		0.35	0.13	ug/m3			11/04/19 23:15	1
Naphthalene	ND		1.0	0.40	ug/m3			11/04/19 23:15	1
n-Butane	36	J	0.38	0.20	ug/m3			11/04/19 23:15	1
n-Decane	1.1	J	2.3	0.22	ug/m3			11/04/19 23:15	1
n-Dodecane	1.5	J	2.8	0.45	ug/m3			11/04/19 23:15	1
n-Octane	0.30	J	0.75	0.075	ug/m3			11/04/19 23:15	1
Nonane	0.26	J	1.0	0.094	ug/m3			11/04/19 23:15	1
n-Undecane	0.41	J	2.6	0.31	ug/m3			11/04/19 23:15	1
o-Xylene	0.46		0.35	0.065	ug/m3			11/04/19 23:15	1
Pentane	2.9		1.2	0.23	ug/m3			11/04/19 23:15	1
Propene	4.4	et J	1.7	1.7	ug/m3			11/04/19 23:15	1
Styrene	0.53		0.34	0.10	ug/m3			11/04/19 23:15	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-1141-IA-2

Lab Sample ID: 140-17191-4

Date Collected: 10/29/19 16:41

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.5		0.54	0.047	ug/m3			11/04/19 23:15	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/04/19 23:15	1
Thiophene	ND		0.28	0.038	ug/m3			11/04/19 23:15	1
Toluene	3.0		0.45	0.29	ug/m3			11/04/19 23:15	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/04/19 23:15	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/04/19 23:15	1
Trichloroethene	0.069	J	0.19	0.032	ug/m3			11/04/19 23:15	1
Trichlorofluoromethane	1.4		0.45	0.062	ug/m3			11/04/19 23:15	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/04/19 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140		11/04/19 23:15	1

Client Sample ID: AA 103019

Lab Sample ID: 140-17191-5

Date Collected: 10/30/19 15:03

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 00:12	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 00:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.080	0.0080	ppb v/v			11/05/19 00:12	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 00:12	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 00:12	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 00:12	1
1,2,3-Trimethylbenzene	ND		0.080	0.036	ppb v/v			11/05/19 00:12	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 00:12	1
1,2,4-Trimethylbenzene	0.022	J	0.080	0.020	ppb v/v			11/05/19 00:12	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 00:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/05/19 00:12	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 00:12	1
1,2-Dichloroethane	0.013	J	0.080	0.010	ppb v/v			11/05/19 00:12	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 00:12	1
1,3,5-Trimethylbenzene	ND		0.080	0.022	ppb v/v			11/05/19 00:12	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 00:12	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 00:12	1
1,4-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 00:12	1
1,4-Dioxane	0.73		0.20	0.030	ppb v/v			11/05/19 00:12	1
2,2,4-Trimethylpentane	0.095	J	0.20	0.0080	ppb v/v			11/05/19 00:12	1
2,3-Dimethylpentane	0.033	J	0.080	0.026	ppb v/v			11/05/19 00:12	1
2-Butanone (MEK)	0.29	J	0.32	0.073	ppb v/v			11/05/19 00:12	1
2-Hexanone	0.022	J	0.20	0.016	ppb v/v			11/05/19 00:12	1
2-Methylbutane	0.90		0.20	0.063	ppb v/v			11/05/19 00:12	1
2-Methylpentane	0.17		0.080	0.014	ppb v/v			11/05/19 00:12	1
4-Ethyltoluene	ND		0.16	0.021	ppb v/v			11/05/19 00:12	1
4-Methyl-2-pentanone (MIBK)	0.078	J	0.20	0.054	ppb v/v			11/05/19 00:12	1
Acetone	3.2		2.0	0.57	ppb v/v			11/05/19 00:12	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: AA 103019

Lab Sample ID: 140-17191-5

Date Collected: 10/30/19 15:03

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.26		0.080	0.0080	ppb v/v			11/05/19 00:12	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 00:12	1
Bromodichloromethane	ND		0.080	0.018	ppb v/v			11/05/19 00:12	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/05/19 00:12	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/05/19 00:12	1
Carbon disulfide	0.056	J	0.20	0.011	ppb v/v			11/05/19 00:12	1
Carbon tetrachloride	0.079		0.032	0.0070	ppb v/v			11/05/19 00:12	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 00:12	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 00:12	1
Chloroform	0.052	J	0.080	0.0070	ppb v/v			11/05/19 00:12	1
Chloromethane	0.69	CL J	0.20	0.066	ppb v/v			11/05/19 00:12	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/05/19 00:12	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 00:12	1
Cyclohexane	0.095	J	0.20	0.023	ppb v/v			11/05/19 00:12	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/05/19 00:12	1
Dichlorodifluoromethane	0.28		0.080	0.014	ppb v/v			11/05/19 00:12	1
Ethylbenzene	0.053	J	0.080	0.013	ppb v/v			11/05/19 00:12	1
Heptane	0.088	J	0.20	0.014	ppb v/v			11/05/19 00:12	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 00:12	1
Hexane	0.19	J	0.20	0.013	ppb v/v			11/05/19 00:12	1
Indane	ND		0.080	0.035	ppb v/v			11/05/19 00:12	1
Indene	ND		0.16	0.039	ppb v/v			11/05/19 00:12	1
Isopropyl alcohol	1.2		0.80	0.22	ppb v/v			11/05/19 00:12	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/05/19 00:12	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 00:12	1
Methylene Chloride	0.55	BUB	0.40	0.16	ppb v/v			11/05/19 00:12	1
m-Xylene & p-Xylene	0.14		0.080	0.029	ppb v/v			11/05/19 00:12	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/05/19 00:12	1
n-Butane	2.3	J	0.16	0.083	ppb v/v			11/05/19 00:12	1
n-Decane	ND		0.40	0.038	ppb v/v			11/05/19 00:12	1
n-Dodecane	ND		0.40	0.064	ppb v/v			11/05/19 00:12	1
n-Octane	0.033	J	0.16	0.016	ppb v/v			11/05/19 00:12	1
Nonane	0.025	J	0.20	0.018	ppb v/v			11/05/19 00:12	1
n-Undecane	ND		0.40	0.048	ppb v/v			11/05/19 00:12	1
o-Xylene	0.043	J	0.080	0.015	ppb v/v			11/05/19 00:12	1
Pentane	0.46		0.40	0.079	ppb v/v			11/05/19 00:12	1
Propene	1.1	CL J	1.0	1.0	ppb v/v			11/05/19 00:12	1
Styrene	ND		0.080	0.024	ppb v/v			11/05/19 00:12	1
Tetrachloroethene	0.13		0.080	0.0070	ppb v/v			11/05/19 00:12	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 00:12	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 00:12	1
Toluene	0.61		0.12	0.078	ppb v/v			11/05/19 00:12	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/05/19 00:12	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 00:12	1
Trichloroethene	0.012	J	0.036	0.0060	ppb v/v			11/05/19 00:12	1
Trichlorofluoromethane	0.24		0.080	0.011	ppb v/v			11/05/19 00:12	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/05/19 00:12	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: AA 103019

Lab Sample ID: 140-17191-5

Date Collected: 10/30/19 15:03

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 00:12	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 00:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	0.61	0.061	ug/m3			11/05/19 00:12	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 00:12	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/05/19 00:12	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 00:12	1
1,2,3-Trimethylbenzene	ND		0.39	0.18	ug/m3			11/05/19 00:12	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 00:12	1
1,2,4-Trimethylbenzene	0.11	J	0.39	0.098	ug/m3			11/05/19 00:12	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 00:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/05/19 00:12	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 00:12	1
1,2-Dichloroethane	0.053	J	0.32	0.040	ug/m3			11/05/19 00:12	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 00:12	1
1,3,5-Trimethylbenzene	ND		0.39	0.11	ug/m3			11/05/19 00:12	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 00:12	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 00:12	1
1,4-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 00:12	1
1,4-Dioxane	2.6		0.72	0.11	ug/m3			11/05/19 00:12	1
2,2,4-Trimethylpentane	0.44	J	0.93	0.037	ug/m3			11/05/19 00:12	1
2,3-Dimethylpentane	0.14	J	0.33	0.11	ug/m3			11/05/19 00:12	1
2-Butanone (MEK)	0.84	J	0.94	0.22	ug/m3			11/05/19 00:12	1
2-Hexanone	0.091	J	0.82	0.066	ug/m3			11/05/19 00:12	1
2-Methylbutane	2.7		0.59	0.19	ug/m3			11/05/19 00:12	1
2-Methylpentane	0.59		0.28	0.049	ug/m3			11/05/19 00:12	1
4-Ethyltoluene	ND		0.79	0.10	ug/m3			11/05/19 00:12	1
4-Methyl-2-pentanone (MIBK)	0.32	J	0.82	0.22	ug/m3			11/05/19 00:12	1
Acetone	7.6	et J	4.8	1.3	ug/m3			11/05/19 00:12	1
Benzene	0.83		0.26	0.026	ug/m3			11/05/19 00:12	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 00:12	1
Bromodichloromethane	ND		0.54	0.12	ug/m3			11/05/19 00:12	1
Bromoform	ND		0.83	0.093	ug/m3			11/05/19 00:12	1
Bromomethane	ND		0.31	0.085	ug/m3			11/05/19 00:12	1
Carbon disulfide	0.17	J	0.62	0.034	ug/m3			11/05/19 00:12	1
Carbon tetrachloride	0.50		0.20	0.044	ug/m3			11/05/19 00:12	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 00:12	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 00:12	1
Chloroform	0.25	J	0.39	0.034	ug/m3			11/05/19 00:12	1
Chloromethane	1.4	et J	0.41	0.14	ug/m3			11/05/19 00:12	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/05/19 00:12	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 00:12	1
Cyclohexane	0.33	J	0.69	0.079	ug/m3			11/05/19 00:12	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/05/19 00:12	1
Dichlorodifluoromethane	1.4		0.40	0.069	ug/m3			11/05/19 00:12	1
Ethylbenzene	0.23	J	0.35	0.056	ug/m3			11/05/19 00:12	1
Heptane	0.36	J	0.82	0.057	ug/m3			11/05/19 00:12	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 00:12	1
Hexane	0.68	J	0.70	0.046	ug/m3			11/05/19 00:12	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: AA 103019

Lab Sample ID: 140-17191-5

Date Collected: 10/30/19 15:03

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.39	0.17	ug/m3			11/05/19 00:12	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 00:12	1
Isopropyl alcohol	3.0		2.0	0.54	ug/m3			11/05/19 00:12	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/05/19 00:12	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 00:12	1
Methylene Chloride	1.9	B-UB	1.4	0.56	ug/m3			11/05/19 00:12	1
m-Xylene & p-Xylene	0.60		0.35	0.13	ug/m3			11/05/19 00:12	1
Naphthalene	ND		1.0	0.40	ug/m3			11/05/19 00:12	1
n-Butane	5.6	J	0.38	0.20	ug/m3			11/05/19 00:12	1
n-Decane	ND		2.3	0.22	ug/m3			11/05/19 00:12	1
n-Dodecane	ND		2.8	0.45	ug/m3			11/05/19 00:12	1
n-Octane	0.15	J	0.75	0.075	ug/m3			11/05/19 00:12	1
Nonane	0.13	J	1.0	0.094	ug/m3			11/05/19 00:12	1
n-Undecane	ND		2.6	0.31	ug/m3			11/05/19 00:12	1
o-Xylene	0.19	J	0.35	0.065	ug/m3			11/05/19 00:12	1
Pentane	1.4		1.2	0.23	ug/m3			11/05/19 00:12	1
Propene	1.8	GT-J	1.7	1.7	ug/m3			11/05/19 00:12	1
Styrene	ND		0.34	0.10	ug/m3			11/05/19 00:12	1
Tetrachloroethene	0.88		0.54	0.047	ug/m3			11/05/19 00:12	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 00:12	1
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 00:12	1
Toluene	2.3		0.45	0.29	ug/m3			11/05/19 00:12	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/05/19 00:12	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 00:12	1
Trichloroethene	0.065	J	0.19	0.032	ug/m3			11/05/19 00:12	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/05/19 00:12	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/05/19 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140					11/05/19 00:12	1

Client Sample ID: JR-178-IA-1

Lab Sample ID: 140-17191-6

Date Collected: 10/30/19 15:35

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/07/19 00:29	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/07/19 00:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.080	0.0080	ppb v/v			11/07/19 00:29	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 00:29	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 00:29	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/07/19 00:29	1
1,2,3-Trimethylbenzene	1.1		0.080	0.036	ppb v/v			11/07/19 00:29	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/07/19 00:29	1
1,2,4-Trimethylbenzene	4.8		0.080	0.020	ppb v/v			11/07/19 00:29	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/07/19 00:29	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-1

Lab Sample ID: 140-17191-6

Date Collected: 10/30/19 15:35

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.016	J	0.080	0.012	ppb v/v			11/07/19 00:29	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/07/19 00:29	1
1,2-Dichloroethane	0.018	J	0.080	0.010	ppb v/v			11/07/19 00:29	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/07/19 00:29	1
1,3,5-Trimethylbenzene	1.3		0.080	0.022	ppb v/v			11/07/19 00:29	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/07/19 00:29	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/07/19 00:29	1
1,4-Dichlorobenzene	0.064	J	0.080	0.016	ppb v/v			11/07/19 00:29	1
1,4-Dioxane	0.035	J	0.20	0.030	ppb v/v			11/07/19 00:29	1
2,2,4-Trimethylpentane	0.13	J	0.20	0.0080	ppb v/v			11/07/19 00:29	1
2,3-Dimethylpentane	0.044	J	0.080	0.026	ppb v/v			11/07/19 00:29	1
2-Butanone (MEK)	7.8		0.32	0.073	ppb v/v			11/07/19 00:29	1
2-Hexanone	0.11	J	0.20	0.016	ppb v/v			11/07/19 00:29	1
2-Methylbutane	1.5		0.20	0.063	ppb v/v			11/07/19 00:29	1
2-Methylpentane	0.21		0.080	0.014	ppb v/v			11/07/19 00:29	1
4-Ethyltoluene	1.3		0.16	0.021	ppb v/v			11/07/19 00:29	1
4-Methyl-2-pentanone (MIBK)	0.50		0.20	0.054	ppb v/v			11/07/19 00:29	1
Acetone	7.4		2.0	0.57	ppb v/v			11/07/19 00:29	1
Benzene	0.23		0.080	0.0080	ppb v/v			11/07/19 00:29	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/07/19 00:29	1
Bromodichloromethane	0.055	J	0.080	0.018	ppb v/v			11/07/19 00:29	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/07/19 00:29	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/07/19 00:29	1
Carbon disulfide	0.13	J	0.20	0.011	ppb v/v			11/07/19 00:29	1
Carbon tetrachloride	0.082		0.032	0.0070	ppb v/v			11/07/19 00:29	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/07/19 00:29	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/07/19 00:29	1
Chloroform	0.45		0.080	0.0070	ppb v/v			11/07/19 00:29	1
Chloromethane	0.66		0.20	0.066	ppb v/v			11/07/19 00:29	1
cis-1,2-Dichloroethene	0.010	J	0.040	0.010	ppb v/v			11/07/19 00:29	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/07/19 00:29	1
Cyclohexane	0.11	J	0.20	0.023	ppb v/v			11/07/19 00:29	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/07/19 00:29	1
Dichlorodifluoromethane	0.52		0.080	0.014	ppb v/v			11/07/19 00:29	1
Ethylbenzene	0.68		0.080	0.013	ppb v/v			11/07/19 00:29	1
Heptane	1.6		0.20	0.014	ppb v/v			11/07/19 00:29	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/07/19 00:29	1
Hexane	0.56		0.20	0.013	ppb v/v			11/07/19 00:29	1
Indane	0.30		0.080	0.035	ppb v/v			11/07/19 00:29	1
Indene	ND		0.16	0.039	ppb v/v			11/07/19 00:29	1
Isopropyl alcohol	3.5		0.80	0.22	ppb v/v			11/07/19 00:29	1
Isopropylbenzene	0.14	J	0.16	0.017	ppb v/v			11/07/19 00:29	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/07/19 00:29	1
Methylene Chloride	0.99	B-UB	0.40	0.16	ppb v/v			11/07/19 00:29	1
m-Xylene & p-Xylene	2.6		0.080	0.029	ppb v/v			11/07/19 00:29	1
Naphthalene	1.5		0.20	0.076	ppb v/v			11/07/19 00:29	1
n-Butane	5.9		0.16	0.083	ppb v/v			11/07/19 00:29	1
n-Decane	7.6		0.40	0.038	ppb v/v			11/07/19 00:29	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-1

Lab Sample ID: 140-17191-6

Date Collected: 10/30/19 15:35

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Dodecane	0.88		0.40	0.064	ppb v/v			11/07/19 00:29	1
n-Octane	1.4		0.16	0.016	ppb v/v			11/07/19 00:29	1
Nonane	1.7		0.20	0.018	ppb v/v			11/07/19 00:29	1
n-Undecane	3.9		0.40	0.048	ppb v/v			11/07/19 00:29	1
o-Xylene	1.0		0.080	0.015	ppb v/v			11/07/19 00:29	1
Pentane	8.8		0.40	0.079	ppb v/v			11/07/19 00:29	1
Propene	1.5		1.0	1.0	ppb v/v			11/07/19 00:29	1
Styrene	0.16		0.080	0.024	ppb v/v			11/07/19 00:29	1
Tetrachloroethene	0.32		0.080	0.0070	ppb v/v			11/07/19 00:29	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/07/19 00:29	1
Thiophene	ND		0.080	0.011	ppb v/v			11/07/19 00:29	1
Toluene	0.95		0.12	0.078	ppb v/v			11/07/19 00:29	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/07/19 00:29	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/07/19 00:29	1
Trichloroethene	0.018	J	0.036	0.0060	ppb v/v			11/07/19 00:29	1
Trichlorofluoromethane	0.22		0.080	0.011	ppb v/v			11/07/19 00:29	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/07/19 00:29	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/07/19 00:29	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/07/19 00:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	0.61	0.061	ug/m3			11/07/19 00:29	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/07/19 00:29	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/07/19 00:29	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/07/19 00:29	1
1,2,3-Trimethylbenzene	5.3		0.39	0.18	ug/m3			11/07/19 00:29	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/07/19 00:29	1
1,2,4-Trimethylbenzene	24		0.39	0.098	ug/m3			11/07/19 00:29	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/07/19 00:29	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.11	J	0.56	0.084	ug/m3			11/07/19 00:29	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/07/19 00:29	1
1,2-Dichloroethane	0.071	J	0.32	0.040	ug/m3			11/07/19 00:29	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/07/19 00:29	1
1,3,5-Trimethylbenzene	6.3		0.39	0.11	ug/m3			11/07/19 00:29	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/07/19 00:29	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/07/19 00:29	1
1,4-Dichlorobenzene	0.39	J	0.48	0.096	ug/m3			11/07/19 00:29	1
1,4-Dioxane	0.13	J	0.72	0.11	ug/m3			11/07/19 00:29	1
2,2,4-Trimethylpentane	0.63	J	0.93	0.037	ug/m3			11/07/19 00:29	1
2,3-Dimethylpentane	0.18	J	0.33	0.11	ug/m3			11/07/19 00:29	1
2-Butanone (MEK)	23		0.94	0.22	ug/m3			11/07/19 00:29	1
2-Hexanone	0.47	J	0.82	0.066	ug/m3			11/07/19 00:29	1
2-Methylbutane	4.4		0.59	0.19	ug/m3			11/07/19 00:29	1
2-Methylpentane	0.74		0.28	0.049	ug/m3			11/07/19 00:29	1
4-Ethyltoluene	6.5		0.79	0.10	ug/m3			11/07/19 00:29	1
4-Methyl-2-pentanone (MIBK)	2.1		0.82	0.22	ug/m3			11/07/19 00:29	1
Acetone	18		4.8	1.3	ug/m3			11/07/19 00:29	1
Benzene	0.73		0.26	0.026	ug/m3			11/07/19 00:29	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-1

Lab Sample ID: 140-17191-6

Date Collected: 10/30/19 15:35

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		0.83	0.20	ug/m3			11/07/19 00:29	1
Bromodichloromethane	0.37	J	0.54	0.12	ug/m3			11/07/19 00:29	1
Bromoform	ND		0.83	0.093	ug/m3			11/07/19 00:29	1
Bromomethane	ND		0.31	0.085	ug/m3			11/07/19 00:29	1
Carbon disulfide	0.42	J	0.62	0.034	ug/m3			11/07/19 00:29	1
Carbon tetrachloride	0.52		0.20	0.044	ug/m3			11/07/19 00:29	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/07/19 00:29	1
Chloroethane	ND		0.21	0.077	ug/m3			11/07/19 00:29	1
Chloroform	2.2		0.39	0.034	ug/m3			11/07/19 00:29	1
Chloromethane	1.4		0.41	0.14	ug/m3			11/07/19 00:29	1
cis-1,2-Dichloroethene	0.041	J	0.16	0.040	ug/m3			11/07/19 00:29	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/07/19 00:29	1
Cyclohexane	0.39	J	0.69	0.079	ug/m3			11/07/19 00:29	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/07/19 00:29	1
Dichlorodifluoromethane	2.6		0.40	0.069	ug/m3			11/07/19 00:29	1
Ethylbenzene	3.0		0.35	0.056	ug/m3			11/07/19 00:29	1
Heptane	6.6		0.82	0.057	ug/m3			11/07/19 00:29	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/07/19 00:29	1
Hexane	2.0		0.70	0.046	ug/m3			11/07/19 00:29	1
Indane	1.5		0.39	0.17	ug/m3			11/07/19 00:29	1
Indene	ND		0.76	0.19	ug/m3			11/07/19 00:29	1
Isopropyl alcohol	8.7		2.0	0.54	ug/m3			11/07/19 00:29	1
Isopropylbenzene	0.67	J	0.79	0.084	ug/m3			11/07/19 00:29	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/07/19 00:29	1
Methylene Chloride	3.4	B-013	1.4	0.56	ug/m3			11/07/19 00:29	1
m-Xylene & p-Xylene	11		0.35	0.13	ug/m3			11/07/19 00:29	1
Naphthalene	8.1		1.0	0.40	ug/m3			11/07/19 00:29	1
n-Butane	14		0.38	0.20	ug/m3			11/07/19 00:29	1
n-Decane	44		2.3	0.22	ug/m3			11/07/19 00:29	1
n-Dodecane	6.1		2.8	0.45	ug/m3			11/07/19 00:29	1
n-Octane	6.8		0.75	0.075	ug/m3			11/07/19 00:29	1
Nonane	8.9		1.0	0.094	ug/m3			11/07/19 00:29	1
n-Undecane	25		2.6	0.31	ug/m3			11/07/19 00:29	1
o-Xylene	4.5		0.35	0.065	ug/m3			11/07/19 00:29	1
Pentane	26		1.2	0.23	ug/m3			11/07/19 00:29	1
Propene	2.7	et-1	1.7	1.7	ug/m3			11/07/19 00:29	1
Styrene	0.70		0.34	0.10	ug/m3			11/07/19 00:29	1
Tetrachloroethene	2.2		0.54	0.047	ug/m3			11/07/19 00:29	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/07/19 00:29	1
Thiophene	ND		0.28	0.038	ug/m3			11/07/19 00:29	1
Toluene	3.6		0.45	0.29	ug/m3			11/07/19 00:29	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/07/19 00:29	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/07/19 00:29	1
Trichloroethene	0.097	J	0.19	0.032	ug/m3			11/07/19 00:29	1
Trichlorofluoromethane	1.2		0.45	0.062	ug/m3			11/07/19 00:29	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/07/19 00:29	1

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		60 - 140

Prepared	Analyzed	Dil Fac
	11/07/19 00:29	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-2

Lab Sample ID: 140-17191-7

Date Collected: 10/30/19 15:51

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/07/19 01:14	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/07/19 01:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.080	0.0080	ppb v/v			11/07/19 01:14	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 01:14	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 01:14	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/07/19 01:14	1
1,2,3-Trimethylbenzene	0.14	CI J	0.080	0.036	ppb v/v			11/07/19 01:14	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/07/19 01:14	1
1,2,4-Trimethylbenzene	0.16		0.080	0.020	ppb v/v			11/07/19 01:14	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/07/19 01:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.016	J	0.080	0.012	ppb v/v			11/07/19 01:14	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/07/19 01:14	1
1,2-Dichloroethane	0.033	J	0.080	0.010	ppb v/v			11/07/19 01:14	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/07/19 01:14	1
1,3,5-Trimethylbenzene	0.076	J	0.080	0.022	ppb v/v			11/07/19 01:14	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/07/19 01:14	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/07/19 01:14	1
1,4-Dichlorobenzene	0.29		0.080	0.016	ppb v/v			11/07/19 01:14	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/07/19 01:14	1
2,2,4-Trimethylpentane	0.13	J	0.20	0.0080	ppb v/v			11/07/19 01:14	1
2,3-Dimethylpentane	0.046	J	0.080	0.026	ppb v/v			11/07/19 01:14	1
2-Butanone (MEK)	0.81		0.32	0.073	ppb v/v			11/07/19 01:14	1
2-Hexanone	0.086	J	0.20	0.016	ppb v/v			11/07/19 01:14	1
2-Methylbutane	1.0		0.20	0.063	ppb v/v			11/07/19 01:14	1
2-Methylpentane	0.25		0.080	0.014	ppb v/v			11/07/19 01:14	1
4-Ethyltoluene	0.079	J	0.16	0.021	ppb v/v			11/07/19 01:14	1
4-Methyl-2-pentanone (MIBK)	0.11	J	0.20	0.054	ppb v/v			11/07/19 01:14	1
Acetone	9.7	CI J	2.0	0.57	ppb v/v			11/07/19 01:14	1
Benzene	1.1		0.080	0.0080	ppb v/v			11/07/19 01:14	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/07/19 01:14	1
Bromodichloromethane	1.8		0.080	0.018	ppb v/v			11/07/19 01:14	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/07/19 01:14	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/07/19 01:14	1
Carbon disulfide	0.32		0.20	0.011	ppb v/v			11/07/19 01:14	1
Carbon tetrachloride	0.092		0.032	0.0070	ppb v/v			11/07/19 01:14	1
Chlorobenzene	0.018	J	0.080	0.0060	ppb v/v			11/07/19 01:14	1
Chloroethane	0.045	J	0.080	0.029	ppb v/v			11/07/19 01:14	1
Chloroform	10		0.080	0.0070	ppb v/v			11/07/19 01:14	1
Chloromethane	0.73		0.20	0.066	ppb v/v			11/07/19 01:14	1
cis-1,2-Dichloroethene	0.098		0.040	0.010	ppb v/v			11/07/19 01:14	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/07/19 01:14	1
Cyclohexane	0.15	J	0.20	0.023	ppb v/v			11/07/19 01:14	1
Dibromochloromethane	0.18		0.080	0.0070	ppb v/v			11/07/19 01:14	1
Dichlorodifluoromethane	0.55		0.080	0.014	ppb v/v			11/07/19 01:14	1
Ethylbenzene	0.29		0.080	0.013	ppb v/v			11/07/19 01:14	1
Heptane	0.16	J	0.20	0.014	ppb v/v			11/07/19 01:14	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/07/19 01:14	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-2

Lab Sample ID: 140-17191-7

Date Collected: 10/30/19 15:51

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.31		0.20	0.013	ppb v/v			11/07/19 01:14	1
Indane	1.3		0.080	0.035	ppb v/v			11/07/19 01:14	1
Indene	ND		0.16	0.039	ppb v/v			11/07/19 01:14	1
Isopropyl alcohol	3.9		0.80	0.22	ppb v/v			11/07/19 01:14	1
Isopropylbenzene	0.11	J	0.16	0.017	ppb v/v			11/07/19 01:14	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/07/19 01:14	1
Methylene Chloride	0.94	BUB	0.40	0.16	ppb v/v			11/07/19 01:14	1
m-Xylene & p-Xylene	0.40		0.080	0.029	ppb v/v			11/07/19 01:14	1
Naphthalene	0.15	J	0.20	0.076	ppb v/v			11/07/19 01:14	1
n-Butane	10		0.16	0.083	ppb v/v			11/07/19 01:14	1
n-Decane	0.74		0.40	0.038	ppb v/v			11/07/19 01:14	1
n-Dodecane	0.33	J	0.40	0.064	ppb v/v			11/07/19 01:14	1
n-Octane	0.095	J	0.16	0.016	ppb v/v			11/07/19 01:14	1
Nonane	0.14	J	0.20	0.018	ppb v/v			11/07/19 01:14	1
n-Undecane	0.23	J	0.40	0.048	ppb v/v			11/07/19 01:14	1
o-Xylene	0.16		0.080	0.015	ppb v/v			11/07/19 01:14	1
Pentane	0.91		0.40	0.079	ppb v/v			11/07/19 01:14	1
Propene	3.0	GT J	1.0		ppb v/v			11/07/19 01:14	1
Styrene	0.22		0.080	0.024	ppb v/v			11/07/19 01:14	1
Tetrachloroethene	0.42		0.080	0.0070	ppb v/v			11/07/19 01:14	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/07/19 01:14	1
Thiophene	0.016	J	0.080	0.011	ppb v/v			11/07/19 01:14	1
Toluene	1.1		0.12	0.078	ppb v/v			11/07/19 01:14	1
trans-1,2-Dichloroethene	0.027	J	0.080	0.0070	ppb v/v			11/07/19 01:14	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/07/19 01:14	1
Trichloroethene	0.024	J	0.036	0.0060	ppb v/v			11/07/19 01:14	1
Trichlorofluoromethane	0.23		0.080	0.011	ppb v/v			11/07/19 01:14	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/07/19 01:14	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/07/19 01:14	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/07/19 01:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	0.61	0.061	ug/m3			11/07/19 01:14	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/07/19 01:14	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/07/19 01:14	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/07/19 01:14	1
1,2,3-Trimethylbenzene	0.68	GT J	0.39	0.18	ug/m3			11/07/19 01:14	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/07/19 01:14	1
1,2,4-Trimethylbenzene	0.80		0.39	0.098	ug/m3			11/07/19 01:14	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/07/19 01:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.11	J	0.56	0.084	ug/m3			11/07/19 01:14	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/07/19 01:14	1
1,2-Dichloroethane	0.13	J	0.32	0.040	ug/m3			11/07/19 01:14	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/07/19 01:14	1
1,3,5-Trimethylbenzene	0.37	J	0.39	0.11	ug/m3			11/07/19 01:14	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/07/19 01:14	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/07/19 01:14	1
1,4-Dichlorobenzene	1.8		0.48	0.096	ug/m3			11/07/19 01:14	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-2

Lab Sample ID: 140-17191-7

Date Collected: 10/30/19 15:51

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/07/19 01:14	1
2,2,4-Trimethylpentane	0.60	J	0.93	0.037	ug/m3			11/07/19 01:14	1
2,3-Dimethylpentane	0.19	J	0.33	0.11	ug/m3			11/07/19 01:14	1
2-Butanone (MEK)	2.4		0.94	0.22	ug/m3			11/07/19 01:14	1
2-Hexanone	0.35	J	0.82	0.066	ug/m3			11/07/19 01:14	1
2-Methylbutane	3.0		0.59	0.19	ug/m3			11/07/19 01:14	1
2-Methylpentane	0.87		0.28	0.049	ug/m3			11/07/19 01:14	1
4-Ethyltoluene	0.39	J	0.79	0.10	ug/m3			11/07/19 01:14	1
4-Methyl-2-pentanone (MIBK)	0.47	J	0.82	0.22	ug/m3			11/07/19 01:14	1
Acetone	23	GT	4.8	1.3	ug/m3			11/07/19 01:14	1
Benzene	3.4		0.26	0.026	ug/m3			11/07/19 01:14	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/07/19 01:14	1
Bromodichloromethane	12		0.54	0.12	ug/m3			11/07/19 01:14	1
Bromoform	ND		0.83	0.093	ug/m3			11/07/19 01:14	1
Bromomethane	ND		0.31	0.085	ug/m3			11/07/19 01:14	1
Carbon disulfide	0.99		0.62	0.034	ug/m3			11/07/19 01:14	1
Carbon tetrachloride	0.58		0.20	0.044	ug/m3			11/07/19 01:14	1
Chlorobenzene	0.084	J	0.37	0.028	ug/m3			11/07/19 01:14	1
Chloroethane	0.12	J	0.21	0.077	ug/m3			11/07/19 01:14	1
Chloroform	49		0.39	0.034	ug/m3			11/07/19 01:14	1
Chloromethane	1.5		0.41	0.14	ug/m3			11/07/19 01:14	1
cis-1,2-Dichloroethene	0.39		0.16	0.040	ug/m3			11/07/19 01:14	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/07/19 01:14	1
Cyclohexane	0.53	J	0.69	0.079	ug/m3			11/07/19 01:14	1
Dibromochloromethane	1.5		0.68	0.060	ug/m3			11/07/19 01:14	1
Dichlorodifluoromethane	2.7		0.40	0.069	ug/m3			11/07/19 01:14	1
Ethylbenzene	1.3		0.35	0.056	ug/m3			11/07/19 01:14	1
Heptane	0.66	J	0.82	0.057	ug/m3			11/07/19 01:14	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/07/19 01:14	1
Hexane	1.1		0.70	0.046	ug/m3			11/07/19 01:14	1
Indane	6.0		0.39	0.17	ug/m3			11/07/19 01:14	1
Indene	ND		0.76	0.19	ug/m3			11/07/19 01:14	1
Isopropyl alcohol	9.5		2.0	0.54	ug/m3			11/07/19 01:14	1
Isopropylbenzene	0.53	J	0.79	0.084	ug/m3			11/07/19 01:14	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/07/19 01:14	1
Methylene Chloride	3.3	B	1.4	0.56	ug/m3			11/07/19 01:14	1
m-Xylene & p-Xylene	1.7		0.35	0.13	ug/m3			11/07/19 01:14	1
Naphthalene	0.81	J	1.0	0.40	ug/m3			11/07/19 01:14	1
n-Butane	24		0.38	0.20	ug/m3			11/07/19 01:14	1
n-Decane	4.3		2.3	0.22	ug/m3			11/07/19 01:14	1
n-Dodecane	2.3	J	2.8	0.45	ug/m3			11/07/19 01:14	1
n-Octane	0.44	J	0.75	0.075	ug/m3			11/07/19 01:14	1
Nonane	0.71	J	1.0	0.094	ug/m3			11/07/19 01:14	1
n-Undecane	1.5	J	2.6	0.31	ug/m3			11/07/19 01:14	1
o-Xylene	0.67		0.35	0.065	ug/m3			11/07/19 01:14	1
Pentane	2.7		1.2	0.23	ug/m3			11/07/19 01:14	1
Propene	5.1	et	1.7	1.7	ug/m3			11/07/19 01:14	1
Styrene	0.92		0.34	0.10	ug/m3			11/07/19 01:14	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-2

Lab Sample ID: 140-17191-7

Date Collected: 10/30/19 15:51

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2.9		0.54	0.047	ug/m3			11/07/19 01:14	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/07/19 01:14	1
Thiophene	0.055	J	0.28	0.038	ug/m3			11/07/19 01:14	1
Toluene	4.3		0.45	0.29	ug/m3			11/07/19 01:14	1
trans-1,2-Dichloroethene	0.11	J	0.32	0.028	ug/m3			11/07/19 01:14	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/07/19 01:14	1
Trichloroethene	0.13	J	0.19	0.032	ug/m3			11/07/19 01:14	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/07/19 01:14	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/07/19 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		60 - 140		11/07/19 01:14	1

Client Sample ID: JR-178-IA-3

Lab Sample ID: 140-17191-8

Date Collected: 10/30/19 15:21

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/07/19 02:00	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/07/19 02:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.080	0.0080	ppb v/v			11/07/19 02:00	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 02:00	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 02:00	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/07/19 02:00	1
1,2,3-Trimethylbenzene	0.037	J	0.080	0.036	ppb v/v			11/07/19 02:00	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/07/19 02:00	1
1,2,4-Trimethylbenzene	0.12		0.080	0.020	ppb v/v			11/07/19 02:00	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/07/19 02:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.016	J	0.080	0.012	ppb v/v			11/07/19 02:00	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/07/19 02:00	1
1,2-Dichloroethane	0.016	J	0.080	0.010	ppb v/v			11/07/19 02:00	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/07/19 02:00	1
1,3,5-Trimethylbenzene	0.068	J	0.080	0.022	ppb v/v			11/07/19 02:00	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/07/19 02:00	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/07/19 02:00	1
1,4-Dichlorobenzene	0.032	J	0.080	0.016	ppb v/v			11/07/19 02:00	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/07/19 02:00	1
2,2,4-Trimethylpentane	0.11	J	0.20	0.0080	ppb v/v			11/07/19 02:00	1
2,3-Dimethylpentane	0.037	J	0.080	0.026	ppb v/v			11/07/19 02:00	1
2-Butanone (MEK)	0.32		0.32	0.073	ppb v/v			11/07/19 02:00	1
2-Hexanone	0.019	J	0.20	0.016	ppb v/v			11/07/19 02:00	1
2-Methylbutane	0.82		0.20	0.063	ppb v/v			11/07/19 02:00	1
2-Methylpentane	0.21		0.080	0.014	ppb v/v			11/07/19 02:00	1
4-Ethyltoluene	0.075	J	0.16	0.021	ppb v/v			11/07/19 02:00	1
4-Methyl-2-pentanone (MIBK)	0.10	J	0.20	0.054	ppb v/v			11/07/19 02:00	1
Acetone	4.0	GT	2.0	0.57	ppb v/v			11/07/19 02:00	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-3

Lab Sample ID: 140-17191-8

Date Collected: 10/30/19 15:21

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.18		0.080	0.0080	ppb v/v			11/07/19 02:00	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/07/19 02:00	1
Bromodichloromethane	0.022	J	0.080	0.018	ppb v/v			11/07/19 02:00	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/07/19 02:00	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/07/19 02:00	1
Carbon disulfide	0.039	J	0.20	0.011	ppb v/v			11/07/19 02:00	1
Carbon tetrachloride	0.076		0.032	0.0070	ppb v/v			11/07/19 02:00	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/07/19 02:00	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/07/19 02:00	1
Chloroform	0.27		0.080	0.0070	ppb v/v			11/07/19 02:00	1
Chloromethane	0.69	CL J	0.20	0.066	ppb v/v			11/07/19 02:00	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/07/19 02:00	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/07/19 02:00	1
Cyclohexane	0.089	J	0.20	0.023	ppb v/v			11/07/19 02:00	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/07/19 02:00	1
Dichlorodifluoromethane	0.53		0.080	0.014	ppb v/v			11/07/19 02:00	1
Ethylbenzene	0.12		0.080	0.013	ppb v/v			11/07/19 02:00	1
Heptane	0.12	J	0.20	0.014	ppb v/v			11/07/19 02:00	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/07/19 02:00	1
Hexane	0.23		0.20	0.013	ppb v/v			11/07/19 02:00	1
Indane	ND		0.080	0.035	ppb v/v			11/07/19 02:00	1
Indene	ND		0.16	0.039	ppb v/v			11/07/19 02:00	1
Isopropyl alcohol	1.7		0.80	0.22	ppb v/v			11/07/19 02:00	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/07/19 02:00	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/07/19 02:00	1
Methylene Chloride	0.74	BUB	0.40	0.16	ppb v/v			11/07/19 02:00	1
m-Xylene & p-Xylene	0.38		0.080	0.029	ppb v/v			11/07/19 02:00	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/07/19 02:00	1
n-Butane	3.3		0.16	0.083	ppb v/v			11/07/19 02:00	1
n-Decane	0.35	J	0.40	0.038	ppb v/v			11/07/19 02:00	1
n-Dodecane	0.27	J	0.40	0.064	ppb v/v			11/07/19 02:00	1
n-Octane	0.086	J	0.16	0.016	ppb v/v			11/07/19 02:00	1
Nonane	0.11	J	0.20	0.018	ppb v/v			11/07/19 02:00	1
n-Undecane	0.13	J	0.40	0.048	ppb v/v			11/07/19 02:00	1
o-Xylene	0.13		0.080	0.015	ppb v/v			11/07/19 02:00	1
Pentane	0.51		0.40	0.079	ppb v/v			11/07/19 02:00	1
Propene	1.5	CL J	1.0	1.0	ppb v/v			11/07/19 02:00	1
Styrene	0.11		0.080	0.024	ppb v/v			11/07/19 02:00	1
Tetrachloroethene	0.30		0.080	0.0070	ppb v/v			11/07/19 02:00	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/07/19 02:00	1
Thiophene	ND		0.080	0.011	ppb v/v			11/07/19 02:00	1
Toluene	0.80		0.12	0.078	ppb v/v			11/07/19 02:00	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/07/19 02:00	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/07/19 02:00	1
Trichloroethene	0.017	J	0.036	0.0060	ppb v/v			11/07/19 02:00	1
Trichlorofluoromethane	0.22		0.080	0.011	ppb v/v			11/07/19 02:00	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/07/19 02:00	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-3

Lab Sample ID: 140-17191-8

Date Collected: 10/30/19 15:21

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/07/19 02:00	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/07/19 02:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	0.61	0.061	ug/m3			11/07/19 02:00	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/07/19 02:00	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/07/19 02:00	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/07/19 02:00	1
1,2,3-Trimethylbenzene	0.18	J	0.39	0.18	ug/m3			11/07/19 02:00	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/07/19 02:00	1
1,2,4-Trimethylbenzene	0.58		0.39	0.098	ug/m3			11/07/19 02:00	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/07/19 02:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.11	J	0.56	0.084	ug/m3			11/07/19 02:00	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/07/19 02:00	1
1,2-Dichloroethane	0.065	J	0.32	0.040	ug/m3			11/07/19 02:00	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/07/19 02:00	1
1,3,5-Trimethylbenzene	0.34	J	0.39	0.11	ug/m3			11/07/19 02:00	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/07/19 02:00	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/07/19 02:00	1
1,4-Dichlorobenzene	0.19	J	0.48	0.096	ug/m3			11/07/19 02:00	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/07/19 02:00	1
2,2,4-Trimethylpentane	0.52	J	0.93	0.037	ug/m3			11/07/19 02:00	1
2,3-Dimethylpentane	0.15	J	0.33	0.11	ug/m3			11/07/19 02:00	1
2-Butanone (MEK)	0.95		0.94	0.22	ug/m3			11/07/19 02:00	1
2-Hexanone	0.077	J	0.82	0.066	ug/m3			11/07/19 02:00	1
2-Methylbutane	2.4		0.59	0.19	ug/m3			11/07/19 02:00	1
2-Methylpentane	0.73		0.28	0.049	ug/m3			11/07/19 02:00	1
4-Ethyltoluene	0.37	J	0.79	0.10	ug/m3			11/07/19 02:00	1
4-Methyl-2-pentanone (MIBK)	0.41	J	0.82	0.22	ug/m3			11/07/19 02:00	1
Acetone	9.6	GT	4.8	1.3	ug/m3			11/07/19 02:00	1
Benzene	0.58		0.26	0.026	ug/m3			11/07/19 02:00	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/07/19 02:00	1
Bromodichloromethane	0.15	J	0.54	0.12	ug/m3			11/07/19 02:00	1
Bromoform	ND		0.83	0.093	ug/m3			11/07/19 02:00	1
Bromomethane	ND		0.31	0.085	ug/m3			11/07/19 02:00	1
Carbon disulfide	0.12	J	0.62	0.034	ug/m3			11/07/19 02:00	1
Carbon tetrachloride	0.48		0.20	0.044	ug/m3			11/07/19 02:00	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/07/19 02:00	1
Chloroethane	ND		0.21	0.077	ug/m3			11/07/19 02:00	1
Chloroform	1.3		0.39	0.034	ug/m3			11/07/19 02:00	1
Chloromethane	1.4	GT	0.41	0.14	ug/m3			11/07/19 02:00	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/07/19 02:00	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/07/19 02:00	1
Cyclohexane	0.31	J	0.69	0.079	ug/m3			11/07/19 02:00	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/07/19 02:00	1
Dichlorodifluoromethane	2.6		0.40	0.069	ug/m3			11/07/19 02:00	1
Ethylbenzene	0.51		0.35	0.056	ug/m3			11/07/19 02:00	1
Heptane	0.51	J	0.82	0.057	ug/m3			11/07/19 02:00	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/07/19 02:00	1
Hexane	0.82		0.70	0.046	ug/m3			11/07/19 02:00	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-178-IA-3

Lab Sample ID: 140-17191-8

Date Collected: 10/30/19 15:21

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.39	0.17	ug/m3			11/07/19 02:00	1
Indene	ND		0.76	0.19	ug/m3			11/07/19 02:00	1
Isopropyl alcohol	4.1		2.0	0.54	ug/m3			11/07/19 02:00	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/07/19 02:00	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/07/19 02:00	1
Methylene Chloride	2.6	UB	1.4	0.56	ug/m3			11/07/19 02:00	1
m-Xylene & p-Xylene	1.7		0.35	0.13	ug/m3			11/07/19 02:00	1
Naphthalene	ND		1.0	0.40	ug/m3			11/07/19 02:00	1
n-Butane	7.9		0.38	0.20	ug/m3			11/07/19 02:00	1
n-Decane	2.0	J	2.3	0.22	ug/m3			11/07/19 02:00	1
n-Dodecane	1.9	J	2.8	0.45	ug/m3			11/07/19 02:00	1
n-Octane	0.40	J	0.75	0.075	ug/m3			11/07/19 02:00	1
Nonane	0.56	J	1.0	0.094	ug/m3			11/07/19 02:00	1
n-Undecane	0.81	J	2.6	0.31	ug/m3			11/07/19 02:00	1
o-Xylene	0.55		0.35	0.065	ug/m3			11/07/19 02:00	1
Pentane	1.5		1.2	0.23	ug/m3			11/07/19 02:00	1
Propene	2.5	U	1.7	1.7	ug/m3			11/07/19 02:00	1
Styrene	0.48		0.34	0.10	ug/m3			11/07/19 02:00	1
Tetrachloroethene	2.0		0.54	0.047	ug/m3			11/07/19 02:00	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/07/19 02:00	1
Thiophene	ND		0.28	0.038	ug/m3			11/07/19 02:00	1
Toluene	3.0		0.45	0.29	ug/m3			11/07/19 02:00	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/07/19 02:00	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/07/19 02:00	1
Trichloroethene	0.091	J	0.19	0.032	ug/m3			11/07/19 02:00	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/07/19 02:00	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/07/19 02:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140					11/07/19 02:00	1

Client Sample ID: JR-170-IA-3

Lab Sample ID: 140-17191-9

Date Collected: 10/30/19 15:59

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/07/19 02:46	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/07/19 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.080	0.0080	ppb v/v			11/07/19 02:46	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 02:46	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 02:46	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/07/19 02:46	1
1,2,3-Trimethylbenzene	ND		0.080	0.036	ppb v/v			11/07/19 02:46	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/07/19 02:46	1
1,2,4-Trimethylbenzene	0.090		0.080	0.020	ppb v/v			11/07/19 02:46	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/07/19 02:46	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-170-IA-3

Lab Sample ID: 140-17191-9

Date Collected: 10/30/19 15:59

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/07/19 02:46	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/07/19 02:46	1
1,2-Dichloroethane	0.032	J	0.080	0.010	ppb v/v			11/07/19 02:46	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/07/19 02:46	1
1,3,5-Trimethylbenzene	0.062	J	0.080	0.022	ppb v/v			11/07/19 02:46	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/07/19 02:46	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/07/19 02:46	1
1,4-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/07/19 02:46	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/07/19 02:46	1
2,2,4-Trimethylpentane	0.23		0.20	0.0080	ppb v/v			11/07/19 02:46	1
2,3-Dimethylpentane	0.090		0.080	0.026	ppb v/v			11/07/19 02:46	1
2-Butanone (MEK)	0.45		0.32	0.073	ppb v/v			11/07/19 02:46	1
2-Hexanone	0.035	J	0.20	0.016	ppb v/v			11/07/19 02:46	1
2-Methylbutane	4.5		0.20	0.063	ppb v/v			11/07/19 02:46	1
2-Methylpentane	0.77		0.080	0.014	ppb v/v			11/07/19 02:46	1
4-Ethyltoluene	0.041	J	0.16	0.021	ppb v/v			11/07/19 02:46	1
4-Methyl-2-pentanone (MIBK)	0.13	J	0.20	0.054	ppb v/v			11/07/19 02:46	1
Acetone	5.4		2.0	0.57	ppb v/v			11/07/19 02:46	1
Benzene	0.44		0.080	0.0080	ppb v/v			11/07/19 02:46	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/07/19 02:46	1
Bromodichloromethane	0.22		0.080	0.018	ppb v/v			11/07/19 02:46	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/07/19 02:46	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/07/19 02:46	1
Carbon disulfide	0.044	J	0.20	0.011	ppb v/v			11/07/19 02:46	1
Carbon tetrachloride	0.092		0.032	0.0070	ppb v/v			11/07/19 02:46	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/07/19 02:46	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/07/19 02:46	1
Chloroform	1.8		0.080	0.0070	ppb v/v			11/07/19 02:46	1
Chloromethane	0.56		0.20	0.066	ppb v/v			11/07/19 02:46	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/07/19 02:46	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/07/19 02:46	1
Cyclohexane	0.22		0.20	0.023	ppb v/v			11/07/19 02:46	1
Dibromochloromethane	0.018	J	0.080	0.0070	ppb v/v			11/07/19 02:46	1
Dichlorodifluoromethane	0.56		0.080	0.014	ppb v/v			11/07/19 02:46	1
Ethylbenzene	0.20		0.080	0.013	ppb v/v			11/07/19 02:46	1
Heptane	0.23		0.20	0.014	ppb v/v			11/07/19 02:46	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/07/19 02:46	1
Hexane	1.5		0.20	0.013	ppb v/v			11/07/19 02:46	1
Indane	0.11		0.080	0.035	ppb v/v			11/07/19 02:46	1
Indene	ND		0.16	0.039	ppb v/v			11/07/19 02:46	1
Isopropyl alcohol	4.6		0.80	0.22	ppb v/v			11/07/19 02:46	1
Isopropylbenzene	0.026	J	0.16	0.017	ppb v/v			11/07/19 02:46	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/07/19 02:46	1
Methylene Chloride	7.2		0.40	0.16	ppb v/v			11/07/19 02:46	1
m-Xylene & p-Xylene	0.54		0.080	0.029	ppb v/v			11/07/19 02:46	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/07/19 02:46	1
n-Butane	11		0.16	0.083	ppb v/v			11/07/19 02:46	1
n-Decane	0.25	J	0.40	0.038	ppb v/v			11/07/19 02:46	1

Eurolins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-170-IA-3

Lab Sample ID: 140-17191-9

Date Collected: 10/30/19 15:59

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Dodecane	ND		0.40	0.064	ppb v/v			11/07/19 02:46	1
n-Octane	0.098	J	0.16	0.016	ppb v/v			11/07/19 02:46	1
Nonane	0.094	J	0.20	0.018	ppb v/v			11/07/19 02:46	1
n-Undecane	ND		0.40	0.048	ppb v/v			11/07/19 02:46	1
o-Xylene	0.18		0.080	0.015	ppb v/v			11/07/19 02:46	1
Pentane	2.6		0.40	0.079	ppb v/v			11/07/19 02:46	1
Propene	1.2		1.0	1.0	ppb v/v			11/07/19 02:46	1
Styrene	0.074	J	0.080	0.024	ppb v/v			11/07/19 02:46	1
Tetrachloroethene	0.14		0.080	0.0070	ppb v/v			11/07/19 02:46	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/07/19 02:46	1
Thiophene	ND		0.080	0.011	ppb v/v			11/07/19 02:46	1
Toluene	1.6		0.12	0.078	ppb v/v			11/07/19 02:46	1
trans-1,2-Dichloroethene	0.018	J	0.080	0.0070	ppb v/v			11/07/19 02:46	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/07/19 02:46	1
Trichloroethene	0.020	J	0.036	0.0060	ppb v/v			11/07/19 02:46	1
Trichlorofluoromethane	0.36		0.080	0.011	ppb v/v			11/07/19 02:46	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/07/19 02:46	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/07/19 02:46	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/07/19 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	0.61	0.061	ug/m3			11/07/19 02:46	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/07/19 02:46	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/07/19 02:46	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/07/19 02:46	1
1,2,3-Trimethylbenzene	ND		0.39	0.18	ug/m3			11/07/19 02:46	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/07/19 02:46	1
1,2,4-Trimethylbenzene	0.44		0.39	0.098	ug/m3			11/07/19 02:46	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/07/19 02:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/07/19 02:46	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/07/19 02:46	1
1,2-Dichloroethane	0.13	J	0.32	0.040	ug/m3			11/07/19 02:46	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/07/19 02:46	1
1,3,5-Trimethylbenzene	0.31	J	0.39	0.11	ug/m3			11/07/19 02:46	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/07/19 02:46	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/07/19 02:46	1
1,4-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/07/19 02:46	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/07/19 02:46	1
2,2,4-Trimethylpentane	1.1		0.93	0.037	ug/m3			11/07/19 02:46	1
2,3-Dimethylpentane	0.37		0.33	0.11	ug/m3			11/07/19 02:46	1
2-Butanone (MEK)	1.3		0.94	0.22	ug/m3			11/07/19 02:46	1
2-Hexanone	0.14	J	0.82	0.066	ug/m3			11/07/19 02:46	1
2-Methylbutane	13		0.59	0.19	ug/m3			11/07/19 02:46	1
2-Methylpentane	2.7		0.28	0.049	ug/m3			11/07/19 02:46	1
4-Ethyltoluene	0.20	J	0.79	0.10	ug/m3			11/07/19 02:46	1
4-Methyl-2-pentanone (MIBK)	0.55	J	0.82	0.22	ug/m3			11/07/19 02:46	1
Acetone	13		4.8	1.3	ug/m3			11/07/19 02:46	1
Benzene	1.4		0.26	0.026	ug/m3			11/07/19 02:46	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-170-IA-3

Lab Sample ID: 140-17191-9

Date Collected: 10/30/19 15:59

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		0.83	0.20	ug/m3			11/07/19 02:46	1
Bromodichloromethane	1.5		0.54	0.12	ug/m3			11/07/19 02:46	1
Bromoform	ND		0.83	0.093	ug/m3			11/07/19 02:46	1
Bromomethane	ND		0.31	0.085	ug/m3			11/07/19 02:46	1
Carbon disulfide	0.14	J	0.62	0.034	ug/m3			11/07/19 02:46	1
Carbon tetrachloride	0.58		0.20	0.044	ug/m3			11/07/19 02:46	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/07/19 02:46	1
Chloroethane	ND		0.21	0.077	ug/m3			11/07/19 02:46	1
Chloroform	8.6		0.39	0.034	ug/m3			11/07/19 02:46	1
Chloromethane	1.2		0.41	0.14	ug/m3			11/07/19 02:46	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/07/19 02:46	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/07/19 02:46	1
Cyclohexane	0.77		0.69	0.079	ug/m3			11/07/19 02:46	1
Dibromochloromethane	0.15	J	0.68	0.060	ug/m3			11/07/19 02:46	1
Dichlorodifluoromethane	2.7		0.40	0.069	ug/m3			11/07/19 02:46	1
Ethylbenzene	0.85		0.35	0.056	ug/m3			11/07/19 02:46	1
Heptane	0.96		0.82	0.057	ug/m3			11/07/19 02:46	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/07/19 02:46	1
Hexane	5.2		0.70	0.046	ug/m3			11/07/19 02:46	1
Indane	0.55		0.39	0.17	ug/m3			11/07/19 02:46	1
Indene	ND		0.76	0.19	ug/m3			11/07/19 02:46	1
Isopropyl alcohol	11		2.0	0.54	ug/m3			11/07/19 02:46	1
Isopropylbenzene	0.13	J	0.79	0.084	ug/m3			11/07/19 02:46	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/07/19 02:46	1
Methylene Chloride	25	B	1.4	0.56	ug/m3			11/07/19 02:46	1
m-Xylene & p-Xylene	2.3		0.35	0.13	ug/m3			11/07/19 02:46	1
Naphthalene	ND		1.0	0.40	ug/m3			11/07/19 02:46	1
n-Butane	25		0.38	0.20	ug/m3			11/07/19 02:46	1
n-Decane	1.5	J	2.3	0.22	ug/m3			11/07/19 02:46	1
n-Dodecane	ND		2.8	0.45	ug/m3			11/07/19 02:46	1
n-Octane	0.46	J	0.75	0.075	ug/m3			11/07/19 02:46	1
Nonane	0.49	J	1.0	0.094	ug/m3			11/07/19 02:46	1
n-Undecane	ND		2.6	0.31	ug/m3			11/07/19 02:46	1
o-Xylene	0.78		0.35	0.065	ug/m3			11/07/19 02:46	1
Pentane	7.6		1.2	0.23	ug/m3			11/07/19 02:46	1
Propene	2.0	et J	1.7	1.7	ug/m3			11/07/19 02:46	1
Styrene	0.32	J	0.34	0.10	ug/m3			11/07/19 02:46	1
Tetrachloroethene	0.92		0.54	0.047	ug/m3			11/07/19 02:46	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/07/19 02:46	1
Thiophene	ND		0.28	0.038	ug/m3			11/07/19 02:46	1
Toluene	6.0		0.45	0.29	ug/m3			11/07/19 02:46	1
trans-1,2-Dichloroethene	0.072	J	0.32	0.028	ug/m3			11/07/19 02:46	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/07/19 02:46	1
Trichloroethene	0.10	J	0.19	0.032	ug/m3			11/07/19 02:46	1
Trichlorofluoromethane	2.0		0.45	0.062	ug/m3			11/07/19 02:46	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/07/19 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140					11/07/19 02:46	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-170-IA-4

Lab Sample ID: 140-17191-10

Date Collected: 10/30/19 11:59

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/07/19 03:32	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/07/19 03:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.080	0.0080	ppb v/v			11/07/19 03:32	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 03:32	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/07/19 03:32	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/07/19 03:32	1
1,2,3-Trimethylbenzene	0.046	J	0.080	0.036	ppb v/v			11/07/19 03:32	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/07/19 03:32	1
1,2,4-Trimethylbenzene	0.12		0.080	0.020	ppb v/v			11/07/19 03:32	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/07/19 03:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.016	J	0.080	0.012	ppb v/v			11/07/19 03:32	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/07/19 03:32	1
1,2-Dichloroethane	0.027	J	0.080	0.010	ppb v/v			11/07/19 03:32	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/07/19 03:32	1
1,3,5-Trimethylbenzene	0.067	J	0.080	0.022	ppb v/v			11/07/19 03:32	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/07/19 03:32	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/07/19 03:32	1
1,4-Dichlorobenzene	0.092		0.080	0.016	ppb v/v			11/07/19 03:32	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/07/19 03:32	1
2,2,4-Trimethylpentane	0.12	J	0.20	0.0080	ppb v/v			11/07/19 03:32	1
2,3-Dimethylpentane	0.044	J	0.080	0.026	ppb v/v			11/07/19 03:32	1
2-Butanone (MEK)	0.51		0.32	0.073	ppb v/v			11/07/19 03:32	1
2-Hexanone	0.046	J	0.20	0.016	ppb v/v			11/07/19 03:32	1
2-Methylbutane	1.3		0.20	0.063	ppb v/v			11/07/19 03:32	1
2-Methylpentane	0.26		0.080	0.014	ppb v/v			11/07/19 03:32	1
4-Ethyltoluene	0.076	J	0.16	0.021	ppb v/v			11/07/19 03:32	1
4-Methyl-2-pentanone (MIBK)	0.11	J	0.20	0.054	ppb v/v			11/07/19 03:32	1
Acetone	5.7	CL J	2.0	0.57	ppb v/v			11/07/19 03:32	1
Benzene	0.30		0.080	0.0080	ppb v/v			11/07/19 03:32	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/07/19 03:32	1
Bromodichloromethane	0.16		0.080	0.018	ppb v/v			11/07/19 03:32	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/07/19 03:32	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/07/19 03:32	1
Carbon disulfide	0.073	J	0.20	0.011	ppb v/v			11/07/19 03:32	1
Carbon tetrachloride	0.068		0.032	0.0070	ppb v/v			11/07/19 03:32	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/07/19 03:32	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/07/19 03:32	1
Chloroform	1.3		0.080	0.0070	ppb v/v			11/07/19 03:32	1
Chloromethane	0.55	CL J	0.20	0.066	ppb v/v			11/07/19 03:32	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/07/19 03:32	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/07/19 03:32	1
Cyclohexane	0.11	J	0.20	0.023	ppb v/v			11/07/19 03:32	1
Dibromochloromethane	0.015	J	0.080	0.0070	ppb v/v			11/07/19 03:32	1
Dichlorodifluoromethane	0.50		0.080	0.014	ppb v/v			11/07/19 03:32	1
Ethylbenzene	0.15		0.080	0.013	ppb v/v			11/07/19 03:32	1
Heptane	0.14	J	0.20	0.014	ppb v/v			11/07/19 03:32	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/07/19 03:32	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-170-IA-4

Lab Sample ID: 140-17191-10

Date Collected: 10/30/19 11:59

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.40		0.20	0.013	ppb v/v			11/07/19 03:32	1
Indane	0.18		0.080	0.035	ppb v/v			11/07/19 03:32	1
Indene	ND		0.16	0.039	ppb v/v			11/07/19 03:32	1
Isopropyl alcohol	2.5		0.80	0.22	ppb v/v			11/07/19 03:32	1
Isopropylbenzene	0.023	J	0.16	0.017	ppb v/v			11/07/19 03:32	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/07/19 03:32	1
Methylene Chloride	1.5	B-UB	0.40	0.16	ppb v/v			11/07/19 03:32	1
m-Xylene & p-Xylene	0.40		0.080	0.029	ppb v/v			11/07/19 03:32	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/07/19 03:32	1
n-Butane	2.8		0.16	0.083	ppb v/v			11/07/19 03:32	1
n-Decane	0.36	J	0.40	0.038	ppb v/v			11/07/19 03:32	1
n-Dodecane	0.24	J	0.40	0.064	ppb v/v			11/07/19 03:32	1
n-Octane	0.070	J	0.16	0.016	ppb v/v			11/07/19 03:32	1
Nonane	0.079	J	0.20	0.018	ppb v/v			11/07/19 03:32	1
n-Undecane	0.092	J	0.40	0.048	ppb v/v			11/07/19 03:32	1
o-Xylene	0.14		0.080	0.015	ppb v/v			11/07/19 03:32	1
Pentane	0.76		0.40	0.079	ppb v/v			11/07/19 03:32	1
Propene	1.1	et-J	1.0	1.0	ppb v/v			11/07/19 03:32	1
Styrene	0.11		0.080	0.024	ppb v/v			11/07/19 03:32	1
Tetrachloroethene	0.13		0.080	0.0070	ppb v/v			11/07/19 03:32	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/07/19 03:32	1
Thiophene	ND		0.080	0.011	ppb v/v			11/07/19 03:32	1
Toluene	0.87		0.12	0.078	ppb v/v			11/07/19 03:32	1
trans-1,2-Dichloroethene	0.022	J	0.080	0.0070	ppb v/v			11/07/19 03:32	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/07/19 03:32	1
Trichloroethene	0.011	J	0.036	0.0060	ppb v/v			11/07/19 03:32	1
Trichlorofluoromethane	0.21		0.080	0.011	ppb v/v			11/07/19 03:32	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/07/19 03:32	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/07/19 03:32	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/07/19 03:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	0.61	0.061	ug/m3			11/07/19 03:32	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/07/19 03:32	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/07/19 03:32	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/07/19 03:32	1
1,2,3-Trimethylbenzene	0.22	J	0.39	0.18	ug/m3			11/07/19 03:32	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/07/19 03:32	1
1,2,4-Trimethylbenzene	0.57		0.39	0.098	ug/m3			11/07/19 03:32	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/07/19 03:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.11	J	0.56	0.084	ug/m3			11/07/19 03:32	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/07/19 03:32	1
1,2-Dichloroethane	0.11	J	0.32	0.040	ug/m3			11/07/19 03:32	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/07/19 03:32	1
1,3,5-Trimethylbenzene	0.33	J	0.39	0.11	ug/m3			11/07/19 03:32	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/07/19 03:32	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/07/19 03:32	1
1,4-Dichlorobenzene	0.55		0.48	0.096	ug/m3			11/07/19 03:32	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-170-IA-4

Lab Sample ID: 140-17191-10

Date Collected: 10/30/19 11:59

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/07/19 03:32	1
2,2,4-Trimethylpentane	0.56	J	0.93	0.037	ug/m3			11/07/19 03:32	1
2,3-Dimethylpentane	0.18	J	0.33	0.11	ug/m3			11/07/19 03:32	1
2-Butanone (MEK)	1.5		0.94	0.22	ug/m3			11/07/19 03:32	1
2-Hexanone	0.19	J	0.82	0.066	ug/m3			11/07/19 03:32	1
2-Methylbutane	3.9		0.59	0.19	ug/m3			11/07/19 03:32	1
2-Methylpentane	0.93		0.28	0.049	ug/m3			11/07/19 03:32	1
4-Ethyltoluene	0.37	J	0.79	0.10	ug/m3			11/07/19 03:32	1
4-Methyl-2-pentanone (MIBK)	0.47	J	0.82	0.22	ug/m3			11/07/19 03:32	1
Acetone	13	et	4.8	1.3	ug/m3			11/07/19 03:32	1
Benzene	0.95		0.26	0.026	ug/m3			11/07/19 03:32	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/07/19 03:32	1
Bromodichloromethane	1.0		0.54	0.12	ug/m3			11/07/19 03:32	1
Bromoform	ND		0.83	0.093	ug/m3			11/07/19 03:32	1
Bromomethane	ND		0.31	0.085	ug/m3			11/07/19 03:32	1
Carbon disulfide	0.23	J	0.62	0.034	ug/m3			11/07/19 03:32	1
Carbon tetrachloride	0.43		0.20	0.044	ug/m3			11/07/19 03:32	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/07/19 03:32	1
Chloroethane	ND		0.21	0.077	ug/m3			11/07/19 03:32	1
Chloroform	6.2		0.39	0.034	ug/m3			11/07/19 03:32	1
Chloromethane	1.1	et	0.41	0.14	ug/m3			11/07/19 03:32	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/07/19 03:32	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/07/19 03:32	1
Cyclohexane	0.38	J	0.69	0.079	ug/m3			11/07/19 03:32	1
Dibromochloromethane	0.12	J	0.68	0.060	ug/m3			11/07/19 03:32	1
Dichlorodifluoromethane	2.5		0.40	0.069	ug/m3			11/07/19 03:32	1
Ethylbenzene	0.65		0.35	0.056	ug/m3			11/07/19 03:32	1
Heptane	0.56	J	0.82	0.057	ug/m3			11/07/19 03:32	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/07/19 03:32	1
Hexane	1.4		0.70	0.046	ug/m3			11/07/19 03:32	1
Indane	0.86		0.39	0.17	ug/m3			11/07/19 03:32	1
Indene	ND		0.76	0.19	ug/m3			11/07/19 03:32	1
Isopropyl alcohol	6.1		2.0	0.54	ug/m3			11/07/19 03:32	1
Isopropylbenzene	0.12	J	0.79	0.084	ug/m3			11/07/19 03:32	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/07/19 03:32	1
Methylene Chloride	5.0	B-UB	1.4	0.56	ug/m3			11/07/19 03:32	1
m-Xylene & p-Xylene	1.7		0.35	0.13	ug/m3			11/07/19 03:32	1
Naphthalene	ND		1.0	0.40	ug/m3			11/07/19 03:32	1
n-Butane	6.7		0.38	0.20	ug/m3			11/07/19 03:32	1
n-Decane	2.1	J	2.3	0.22	ug/m3			11/07/19 03:32	1
n-Dodecane	1.7	J	2.8	0.45	ug/m3			11/07/19 03:32	1
n-Octane	0.33	J	0.75	0.075	ug/m3			11/07/19 03:32	1
Nonane	0.41	J	1.0	0.094	ug/m3			11/07/19 03:32	1
n-Undecane	0.59	J	2.6	0.31	ug/m3			11/07/19 03:32	1
o-Xylene	0.59		0.35	0.065	ug/m3			11/07/19 03:32	1
Pentane	2.2		1.2	0.23	ug/m3			11/07/19 03:32	1
Propene	1.9	et	1.7	1.7	ug/m3			11/07/19 03:32	1
Styrene	0.46		0.34	0.10	ug/m3			11/07/19 03:32	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: CON EDISON - EAST 11TH STREET

Job ID: 140-17191-1

Client Sample ID: JR-170-IA-4

Lab Sample ID: 140-17191-10

Date Collected: 10/30/19 11:59

Matrix: Air

Date Received: 11/01/19 09:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.88		0.54	0.047	ug/m3			11/07/19 03:32	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/07/19 03:32	1
Thiophene	ND		0.28	0.038	ug/m3			11/07/19 03:32	1
Toluene	3.3		0.45	0.29	ug/m3			11/07/19 03:32	1
trans-1,2-Dichloroethene	0.088	J	0.32	0.028	ug/m3			11/07/19 03:32	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/07/19 03:32	1
Trichloroethene	0.061	J	0.19	0.032	ug/m3			11/07/19 03:32	1
Trichlorofluoromethane	1.2		0.45	0.062	ug/m3			11/07/19 03:32	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/07/19 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140					11/07/19 03:32	1

Eurofins TestAmerica, New York City Ser
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these sam-

140-17191 Chain of Custody

11-12

Client Contact Information		Client Project Manager: Bruce W. Ahrens		Samples Collected By: Rob Arnold / Albina Redzepagic		COC No:	
Company Name: Arcadis U.S., Inc		Phone: (585) 662 4034		EPA 15/16		TALS Project #:	
Address: 285 Woodcliff Drive		Email: bruce.ahrens@arcadis.com		ASTM D-1945		For Lab Use Only:	
City/State/Zip: Fairport/ NY 14450		Site Contact: Albina Redzepagic		EPA 28C		Walk-in Client:	
Phone: (585) 662 4034		Tel/Fax 212-365-4651		EPA 3C		Lab Sampling:	
FAX: (585) 385 4198		Analysis Turnaround Time		TO-15 SIM		Job / SDG No.:	
Project Name: Con Edison - East 11th Street		Standard (Specific): 10 TOT		TO-15 (Standard / Low Level)		(See below for Add'l Items)	
Site/Location: E. 11th Street - Jacob Riis		Rush (Specific):		Other (Please specify in notes section)			
P O # 30005328				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
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				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub-Slab			
				Indoor Air/Ambient Air			
				Sample Type			
				Other (Please specify in notes section)			
				EPA 15/16			
				ASTM D-1945			
				EPA 28C			
				EPA 3C			
				TO-15 SIM			
				TO-15 (Standard / Low Level)			
				Other (Please specify in notes section)			
				Landfill Gas			
				Soil Vapor Extraction (SVE)			
				Soil Gas			
				Sub			

Consolidated Edison Company of New York, Inc. – East 11th Street Site

DATA USABILITY SUMMARY REPORT

New York City, New York

Volatile Organic Compound (VOC) TO-15 Analysis

SDG #140-17206-1

Analyses Performed By:
Eurofins-TestAmerica Knoxville
Knoxville, Tennessee

Report #34801R
Review Level: Tier III
Project: 30005328.00002



DATA USABILITY SUMMARY REPORT

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 140-17206-1 for samples collected in association with the with the Con Edison East 11th Street site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis					
						VOC	SVOC	PCB	EPH	ME T	MISC
140-17206-1	JR - 170 - IA - 1-20191031	140-17206-1	Air	10/31/2019		X					
	JR - 170 - IA - 2-20191031	140-17206-2	Air	10/31/2019		X					
	JR - 1115 - IA - 1-20191031	140-17206-3	Air	10/31/2019		X					
	JR - 1115 - IA - 2-20191031	140-17206-4	Air	10/31/2019		X					
	JR - 1115 - IA - 3-20191031	140-17206-5	Air	10/31/2019		X					
	JR - 1115 - IA - 4-20191031	140-17206-6	Air	10/31/2019		X					
	AA - 103119-20191031	140-17206-7	Air	10/31/2019		X					
	DUP - 103119-20191031	140-17206-8	Air	10/31/2019	JR - 170 - IA - 1-20191031	X					

DATA USABILITY SUMMARY REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of Quality Assurance or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

DATA USABILITY SUMMARY REPORT

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15 and American Society for Testing and Materials (ASTM) Method D-1946. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II SOP HW-31-Validating Air Samples Volatile Organic Analysis of Ambient Air In Canister by Method TO-15 of October 2006, New York State DEC Analytical Method ASP 2005 TO-15 (QA/QC Criteria R9 TO-15), NYSDEC Modifications to R9 TO-15 QA/QC Criteria October 2009.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

DATA USABILITY SUMMARY REPORT

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA USABILITY SUMMARY REPORT

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation	Return Canister Pressure
USEPA TO-15 and ASTM D-1946	Air	30 days from collection to analysis	Ambient Temperature	< -1" Hg

All samples were analyzed within the specified holding time and canister return pressure / vacuum criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
JR - 170 - IA - 1-20191031 JR - 170 - IA - 2-20191031 JR - 1115 - IA - 1-20191031 JR - 1115 - IA - 3-20191031 JR - 1115 - IA - 4-20191031 AA - 103119-20191031	Methylene Chloride	Detected sample results >RL and <BAL	"UB" at detected sample concentration

Note:

RL Reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

DATA USABILITY SUMMARY REPORT

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
All sample locations within this SDG	ICAL %RSD	Acetone	32.8%
	CCV %D	Bromoform	-31.4%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 30% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J

DATA USABILITY SUMMARY REPORT

Initial/Continuing	Criteria	Sample Result	Qualification
Continuing Calibration	%D >30% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >30% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit a percent recovery within the established acceptance limits of 70% to 130%.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the established acceptance limits of 70% to 130% (60% to 140% for poor responding compounds).

Sample locations associated with LCS analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery
All sample locations within this SDG	Bromoform	<LL but >10%

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of an LCS deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL) 130%	Non-detect	No Action
	Detect	J

DATA USABILITY SUMMARY REPORT

Control Limit	Sample Result	Qualification
< the lower control limit (LL) 70% but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 50% for air matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

Results for duplicate samples are summarized in the following table (ug/m3).

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
JR-170-IA-1-20191031/ DUP - 103119-20191031	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.55 J	0.53 J	AC
	1,1-DICHLOROETHANE	0.034 J	0.039 J	AC
	1,2,3-TRIMETHYLBENZENE	0.74	0.33 J	AC
	1,2,4-TRIMETHYLBENZENE	0.49	1	AC
	1,2-DICHLOROETHANE	0.18 J	0.17 J	AC
	1,2-DICHLOROTETRAFLUOROETHANE	0.1 J	0.13 J	AC
	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.14 J	0.22 J	AC
	1,4-DICHLOROBENZENE	1.4	0.29 J	AC
	1,4-DIOXANE (P-DIOXANE)	0.18 J	0.72 U	AC
	2,2,4-TRIMETHYLPENTANE	0.38 J	1.2	AC
	2,3-DIMETHYL PENTANE	0.11 J	0.47	AC
	2-HEXANONE	0.43 J	0.12 J	AC
	2-METHYL BUTANE	4.2	20	130.5 %
	2-METHYL-PENTANE	0.49	3.1	NC
	4-ETHYLTOLUENE	0.79 U	0.56 J	AC
	ACETONE	21	38	NC
	BENZENE	0.63	2.9	NC
	BROMODICHLOROMETHANE	0.59	0.45 J	AC
	BROMOMETHANE	0.34	0.2 J	AC

DATA USABILITY SUMMARY REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	CARBON DISULFIDE	0.28 J	0.16 J	AC
	CARBON TETRACHLORIDE	0.76	0.66	AC
	CHLOROETHANE	0.21 U	1	AC
	CHLOROFORM	3.7	2.9	24.2 %
	CHLOROMETHANE	2	2.6	26.0 %
	CYCLOHEXANE	0.27 J	1.2	AC
	DIBROMOCHLOROMETHANE	0.076 J	0.68 U	AC
	DICHLORODIFLUOROMETHANE	1.3	1.4	AC
	ETHYLBENZENE	0.41	0.7	AC
	ISOPROPANOL	5.7	3	AC
	ISOPROPYLBENZENE	0.79 U	0.13 J	AC
	M,P-XYLENES	1.5	3.8	NC
	METHYL ETHYL KETONE (2-BUTANONE)	2.5	2.5	AC
	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1.7	0.45 J	AC
	METHYLENE CHLORIDE	2.6 U	18	NC
	N-HEPTANE	0.73 J	1.2	AC
	N-HEXANE	0.58 J	4.2	NC
	O-XYLENE (1,2-DIMETHYLBENZENE)	0.64	1.2	AC
	PROPYLENE	2.1	7.5	AC
	STYRENE	0.32 J	0.17 J	AC
	TETRACHLOROETHYLENE(PCE)	0.66	0.59	AC
	TOLUENE	2.3	11	NC
	TRANS-1,2-DICHLOROETHENE	0.063 J	0.045 J	AC
	TRICHLOROETHYLENE (TCE)	0.036 J	0.19 U	AC
	TRICHLOROFLUOROMETHANE	1.3	1.6	AC
	n-BUTANE	8.3	29	111%
	PENTANE	4.6	14	NC
	n-OCTANE	0.57 J	0.68 J	AC
	NONANE	0.39 J	0.40 J	AC
	n-DECANE	3.0	1.1 J	AC

DATA USABILITY SUMMARY REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	n-UNDECANE	0.64 J	0.46 J	AC
	n-DODECANE	2.5 J	2.8 U	AC

Notes:

AC = Acceptable

NC = Not Compliant

The compounds 2-Methylbutane, 2-Methylpentane, Acetone, Benzene, m-Xylene & p-Xylene, Methylene Chloride, Hexane, n-Butane, Pentane and Toluene associated with sample locations JR - 170 - IA - 1-20191031 and DUP - 103119-20191031 exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed analyte were qualified as estimated.

9. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

10. System Performance and Overall Assessment

Note: The laboratory qualified the detected Acetone results for all sample locations within this SDG with a "CI" qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.

Note: The "CI" qualifier was removed and replaced with a "J" qualifier to indicate that the detected compound results for the associated samples mentioned above are estimated (potential high bias).

- The laboratory qualified the detected Chloromethane results for sample locations JR - 170 - IA - 1-20191031, JR - 1115 - IA - 1-20191031, JR - 1115 - IA - 2-20191031, JR - 1115 - IA - 3-20191031 and DUP - 103119-20191031 with a "CI" qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.
- The laboratory qualified the detected Propene results for sample locations JR - 170 - IA - 1-20191031, JR - 170 - IA - 2-20191031, JR - 1115 - IA - 1-20191031, JR - 1115 - IA - 2-20191031, JR - 1115 - IA - 3-20191031, JR - 1115 - IA - 4-20191031 and DUP - 103119-20191031 with a "CI" qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.
- The laboratory qualified the detected 1,2,3-Trimethylbenzene result for sample location JR - 170 - IA - 1-20191031 with a "CI" qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.

The laboratory noted: Method TO 15 LL: Sample JR - 1115 - IA - 1 (140-17206-3) had n-Butane above the calibration range of the instrument. The analyte was requested after the report was issued. The sample was no longer available for reanalysis. The data has been flagged with an "E". The n-Butane was qualified as estimated "EJ".

DATA USABILITY SUMMARY REPORT

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA USABILITY SUMMARY REPORT

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: TO-15 and ASTM D-1946	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Canister return pressure (<-1"Hg)		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X	X			
B. Equipment blanks					X	
C. Trip blanks					X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)					X	
LCS/LCSD Precision (RPD)					X	
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)		X	X			
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X	X			
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		

DATA USABILITY SUMMARY REPORT

VOCs: TO-15 and ASTM D-1946	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

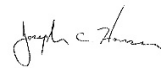
Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	DRO/ GRO	Diss Gases	MET	MISC	
140-17206-1	10/31/2019	USEPA TO-15	JR - 170 - IA - 1-20191031	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks, Field Duplicate RPD
	10/31/2019	USEPA TO-15	JR - 170 - IA - 2-20191031	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks
	10/31/2019	USEPA TO-15	JR - 1115 - IA - 1-20191031	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks
	10/31/2019	USEPA TO-15	JR - 1115 - IA - 2-20191031	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D
	10/31/2019	USEPA TO-15	JR - 1115 - IA - 3-20191031	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks
	10/31/2019	USEPA TO-15	JR - 1115 - IA - 4-20191031	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks
	10/31/2019	USEPA TO-15	AA - 103119-20191031	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks
	10/31/2019	USEPA TO-15	DUP - 103119-20191031	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Field Duplicate RPD

Note:

Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:



DATE: January 28, 2020

PEER REVIEW: Dennis Capria

DATE: January 29, 2020



**CHAIN OF CUSTODY
CORRECTED SAMPLE ANALYSIS DATA
SHEETS**



Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 170 - IA - 1

Lab Sample ID: 140-17206-1

Date Collected: 10/31/19 16:37

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 21:56	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 21:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.072	J	0.080	0.0080	ppb v/v			11/05/19 21:56	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 21:56	1
1,1-Dichloroethane	0.0084	J	0.080	0.0070	ppb v/v			11/05/19 21:56	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 21:56	1
1,2,3-Trimethylbenzene	0.15	GT J	0.080	0.036	ppb v/v			11/05/19 21:56	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 21:56	1
1,2,4-Trimethylbenzene	0.10		0.080	0.020	ppb v/v			11/05/19 21:56	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 21:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.015	J	0.080	0.012	ppb v/v			11/05/19 21:56	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 21:56	1
1,2-Dichloroethane	0.043	J	0.080	0.010	ppb v/v			11/05/19 21:56	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 21:56	1
1,3,5-Trimethylbenzene	0.029	J	0.080	0.022	ppb v/v			11/05/19 21:56	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 21:56	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 21:56	1
1,4-Dichlorobenzene	0.24		0.080	0.016	ppb v/v			11/05/19 21:56	1
1,4-Dioxane	0.050	J	0.20	0.030	ppb v/v			11/05/19 21:56	1
2,2,4-Trimethylpentane	0.082	J	0.20	0.0080	ppb v/v			11/05/19 21:56	1
2,3-Dimethylpentane	0.028	J	0.080	0.026	ppb v/v			11/05/19 21:56	1
2-Butanone (MEK)	0.85		0.32	0.073	ppb v/v			11/05/19 21:56	1
2-Hexanone	0.10	J	0.20	0.016	ppb v/v			11/05/19 21:56	1
2-Methylbutane	1.4	J	0.20	0.063	ppb v/v			11/05/19 21:56	1
2-Methylpentane	0.14	J	0.080	0.014	ppb v/v			11/05/19 21:56	1
4-Ethyltoluene	ND		0.16	0.021	ppb v/v			11/05/19 21:56	1
4-Methyl-2-pentanone (MIBK)	0.41		0.20	0.054	ppb v/v			11/05/19 21:56	1
Acetone	8.7	GT J	2.0	0.57	ppb v/v			11/05/19 21:56	1
Benzene	0.20	J	0.080	0.0080	ppb v/v			11/05/19 21:56	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 21:56	1
Bromodichloromethane	0.089		0.080	0.018	ppb v/v			11/05/19 21:56	1
Bromoform	ND	GT J	0.080	0.0090	ppb v/v			11/05/19 21:56	1
Bromomethane	0.088		0.080	0.022	ppb v/v			11/05/19 21:56	1
Carbon disulfide	0.091	J	0.20	0.011	ppb v/v			11/05/19 21:56	1
Carbon tetrachloride	0.12		0.032	0.0070	ppb v/v			11/05/19 21:56	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 21:56	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 21:56	1
Chloroform	0.76		0.080	0.0070	ppb v/v			11/05/19 21:56	1
Chloromethane	0.96	GT J	0.20	0.066	ppb v/v			11/05/19 21:56	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/05/19 21:56	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 21:56	1
Cyclohexane	0.078	J	0.20	0.023	ppb v/v			11/05/19 21:56	1
Dibromochloromethane	0.0090	J	0.080	0.0070	ppb v/v			11/05/19 21:56	1
Dichlorodifluoromethane	0.25		0.080	0.014	ppb v/v			11/05/19 21:56	1
Ethylbenzene	0.094		0.080	0.013	ppb v/v			11/05/19 21:56	1
Heptane	0.18	J	0.20	0.014	ppb v/v			11/05/19 21:56	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 21:56	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 170 - IA - 1

Lab Sample ID: 140-17206-1

Date Collected: 10/31/19 16:37

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.17	J	0.20	0.013	ppb v/v			11/05/19 21:56	1
Indane	ND		0.080	0.035	ppb v/v			11/05/19 21:56	1
Indene	ND		0.16	0.039	ppb v/v			11/05/19 21:56	1
Isopropyl alcohol	2.3		0.80	0.22	ppb v/v			11/05/19 21:56	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/05/19 21:56	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 21:56	1
Methylene Chloride	0.75	B	0.40	0.16	ppb v/v			11/05/19 21:56	1
m-Xylene & p-Xylene	0.34	J	0.080	0.029	ppb v/v			11/05/19 21:56	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/05/19 21:56	1
n-Butane	3.5	J	0.16	0.083	ppb v/v			11/05/19 21:56	1
n-Decane	0.51		0.40	0.038	ppb v/v			11/05/19 21:56	1
n-Dodecane	0.36	J	0.40	0.064	ppb v/v			11/05/19 21:56	1
n-Octane	0.12	J	0.16	0.016	ppb v/v			11/05/19 21:56	1
Nonane	0.075	J	0.20	0.018	ppb v/v			11/05/19 21:56	1
n-Undecane	0.10	J	0.40	0.048	ppb v/v			11/05/19 21:56	1
o-Xylene	0.15		0.080	0.015	ppb v/v			11/05/19 21:56	1
Pentane	1.6	J	0.40	0.079	ppb v/v			11/05/19 21:56	1
Propene	1.2	G	1.0	1.0	ppb v/v			11/05/19 21:56	1
Styrene	0.075	J	0.080	0.024	ppb v/v			11/05/19 21:56	1
Tetrachloroethene	0.097		0.080	0.0070	ppb v/v			11/05/19 21:56	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 21:56	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 21:56	1
Toluene	0.62	J	0.12	0.078	ppb v/v			11/05/19 21:56	1
trans-1,2-Dichloroethene	0.016	J	0.080	0.0070	ppb v/v			11/05/19 21:56	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 21:56	1
Trichloroethene	0.0067	J	0.036	0.0060	ppb v/v			11/05/19 21:56	1
Trichlorofluoromethane	0.23		0.080	0.011	ppb v/v			11/05/19 21:56	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/05/19 21:56	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 21:56	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 21:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	0.61	0.061	ug/m3			11/05/19 21:56	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 21:56	1
1,1-Dichloroethane	0.034	J	0.32	0.028	ug/m3			11/05/19 21:56	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 21:56	1
1,2,3-Trimethylbenzene	0.74	G	0.39	0.18	ug/m3			11/05/19 21:56	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 21:56	1
1,2,4-Trimethylbenzene	0.49		0.39	0.098	ug/m3			11/05/19 21:56	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 21:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.10	J	0.56	0.084	ug/m3			11/05/19 21:56	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 21:56	1
1,2-Dichloroethane	0.18	J	0.32	0.040	ug/m3			11/05/19 21:56	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 21:56	1
1,3,5-Trimethylbenzene	0.14	J	0.39	0.11	ug/m3			11/05/19 21:56	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 21:56	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 21:56	1
1,4-Dichlorobenzene	1.4		0.48	0.096	ug/m3			11/05/19 21:56	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 170 - IA - 1

Lab Sample ID: 140-17206-1

Date Collected: 10/31/19 16:37

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.18	J	0.72	0.11	ug/m3			11/05/19 21:56	1
2,2,4-Trimethylpentane	0.38	J	0.93	0.037	ug/m3			11/05/19 21:56	1
2,3-Dimethylpentane	0.11	J	0.33	0.11	ug/m3			11/05/19 21:56	1
2-Butanone (MEK)	2.5		0.94	0.22	ug/m3			11/05/19 21:56	1
2-Hexanone	0.43	J	0.82	0.066	ug/m3			11/05/19 21:56	1
2-Methylbutane	4.2	J	0.59	0.19	ug/m3			11/05/19 21:56	1
2-Methylpentane	0.49	J	0.28	0.049	ug/m3			11/05/19 21:56	1
4-Ethyltoluene	ND		0.79	0.10	ug/m3			11/05/19 21:56	1
4-Methyl-2-pentanone (MIBK)	1.7		0.82	0.22	ug/m3			11/05/19 21:56	1
Acetone	21	er J	4.8	1.3	ug/m3			11/05/19 21:56	1
Benzene	0.63	J	0.26	0.026	ug/m3			11/05/19 21:56	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 21:56	1
Bromodichloromethane	0.59		0.54	0.12	ug/m3			11/05/19 21:56	1
Bromoform	ND	UJ	0.83	0.093	ug/m3			11/05/19 21:56	1
Bromomethane	0.34		0.31	0.085	ug/m3			11/05/19 21:56	1
Carbon disulfide	0.28	J	0.62	0.034	ug/m3			11/05/19 21:56	1
Carbon tetrachloride	0.76		0.20	0.044	ug/m3			11/05/19 21:56	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 21:56	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 21:56	1
Chloroform	3.7		0.39	0.034	ug/m3			11/05/19 21:56	1
Chloromethane	2.0	er J	0.41	0.14	ug/m3			11/05/19 21:56	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/05/19 21:56	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 21:56	1
Cyclohexane	0.27	J	0.69	0.079	ug/m3			11/05/19 21:56	1
Dibromochloromethane	0.076	J	0.68	0.060	ug/m3			11/05/19 21:56	1
Dichlorodifluoromethane	1.3		0.40	0.069	ug/m3			11/05/19 21:56	1
Ethylbenzene	0.41		0.35	0.056	ug/m3			11/05/19 21:56	1
Heptane	0.73	J	0.82	0.057	ug/m3			11/05/19 21:56	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 21:56	1
Hexane	0.58	J	0.70	0.046	ug/m3			11/05/19 21:56	1
Indane	ND		0.39	0.17	ug/m3			11/05/19 21:56	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 21:56	1
Isopropyl alcohol	5.7		2.0	0.54	ug/m3			11/05/19 21:56	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/05/19 21:56	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 21:56	1
Methylene Chloride	2.6	B-UJ	1.4	0.56	ug/m3			11/05/19 21:56	1
m-Xylene & p-Xylene	1.5	J	0.35	0.13	ug/m3			11/05/19 21:56	1
Naphthalene	ND		1.0	0.40	ug/m3			11/05/19 21:56	1
n-Butane	8.3	J	0.38	0.20	ug/m3			11/05/19 21:56	1
n-Decane	3.0		2.3	0.22	ug/m3			11/05/19 21:56	1
n-Dodecane	2.5	J	2.8	0.45	ug/m3			11/05/19 21:56	1
n-Octane	0.57	J	0.75	0.075	ug/m3			11/05/19 21:56	1
Nonane	0.39	J	1.0	0.094	ug/m3			11/05/19 21:56	1
n-Undecane	0.64	J	2.6	0.31	ug/m3			11/05/19 21:56	1
o-Xylene	0.64		0.35	0.065	ug/m3			11/05/19 21:56	1
Pentane	4.6	J	1.2	0.23	ug/m3			11/05/19 21:56	1
Propene	2.1	er J	1.7	1.7	ug/m3			11/05/19 21:56	1
Styrene	0.32	J	0.34	0.10	ug/m3			11/05/19 21:56	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 170 - IA - 1

Lab Sample ID: 140-17206-1

Date Collected: 10/31/19 16:37

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.66		0.54	0.047	ug/m3			11/05/19 21:56	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 21:56	1
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 21:56	1
Toluene	2.3	J	0.45	0.29	ug/m3			11/05/19 21:56	1
trans-1,2-Dichloroethene	0.063	J	0.32	0.028	ug/m3			11/05/19 21:56	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 21:56	1
Trichloroethene	0.036	J	0.19	0.032	ug/m3			11/05/19 21:56	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/05/19 21:56	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/05/19 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140					11/05/19 21:56	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.17	0.17	% v/v			11/07/19 11:59	1.67

Client Sample ID: JR - 170 - IA - 2

Lab Sample ID: 140-17206-2

Date Collected: 10/31/19 16:14

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 22:53	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 22:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.072	J	0.080	0.0080	ppb v/v			11/05/19 22:53	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 22:53	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 22:53	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 22:53	1
1,2,3-Trimethylbenzene	ND		0.080	0.036	ppb v/v			11/05/19 22:53	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 22:53	1
1,2,4-Trimethylbenzene	0.086		0.080	0.020	ppb v/v			11/05/19 22:53	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 22:53	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.018	J	0.080	0.012	ppb v/v			11/05/19 22:53	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 22:53	1
1,2-Dichloroethane	0.054	J	0.080	0.010	ppb v/v			11/05/19 22:53	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 22:53	1
1,3,5-Trimethylbenzene	0.028	J	0.080	0.022	ppb v/v			11/05/19 22:53	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 22:53	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 22:53	1
1,4-Dichlorobenzene	0.084		0.080	0.016	ppb v/v			11/05/19 22:53	1
1,4-Dioxane	0.037	J	0.20	0.030	ppb v/v			11/05/19 22:53	1
2,2,4-Trimethylpentane	0.073	J	0.20	0.0080	ppb v/v			11/05/19 22:53	1
2,3-Dimethylpentane	ND		0.080	0.026	ppb v/v			11/05/19 22:53	1
2-Butanone (MEK)	0.48		0.32	0.073	ppb v/v			11/05/19 22:53	1
2-Hexanone	0.047	J	0.20	0.016	ppb v/v			11/05/19 22:53	1
2-Methylbutane	0.68		0.20	0.063	ppb v/v			11/05/19 22:53	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 170 - IA - 2

Lab Sample ID: 140-17206-2

Date Collected: 10/31/19 16:14

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylpentane	0.13		0.080	0.014	ppb v/v			11/05/19 22:53	1
4-Ethyltoluene	ND		0.16	0.021	ppb v/v			11/05/19 22:53	1
4-Methyl-2-pentanone (MIBK)	0.23		0.20	0.054	ppb v/v			11/05/19 22:53	1
Acetone	6.6	ET J	2.0	0.57	ppb v/v			11/05/19 22:53	1
Benzene	0.16		0.080	0.0080	ppb v/v			11/05/19 22:53	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 22:53	1
Bromodichloromethane	ND		0.080	0.018	ppb v/v			11/05/19 22:53	1
Bromoform	ND	UJ	0.080	0.0090	ppb v/v			11/05/19 22:53	1
Bromomethane	0.022	J	0.080	0.022	ppb v/v			11/05/19 22:53	1
Carbon disulfide	0.13	J	0.20	0.011	ppb v/v			11/05/19 22:53	1
Carbon tetrachloride	0.079		0.032	0.0070	ppb v/v			11/05/19 22:53	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 22:53	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 22:53	1
Chloroform	0.12		0.080	0.0070	ppb v/v			11/05/19 22:53	1
Chloromethane	0.95		0.20	0.066	ppb v/v			11/05/19 22:53	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/05/19 22:53	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 22:53	1
Cyclohexane	0.065	J	0.20	0.023	ppb v/v			11/05/19 22:53	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/05/19 22:53	1
Dichlorodifluoromethane	0.27		0.080	0.014	ppb v/v			11/05/19 22:53	1
Ethylbenzene	0.083		0.080	0.013	ppb v/v			11/05/19 22:53	1
Heptane	0.092	J	0.20	0.014	ppb v/v			11/05/19 22:53	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 22:53	1
Hexane	0.14	J	0.20	0.013	ppb v/v			11/05/19 22:53	1
Indane	ND		0.080	0.035	ppb v/v			11/05/19 22:53	1
Indene	ND		0.16	0.039	ppb v/v			11/05/19 22:53	1
Isopropyl alcohol	1.9		0.80	0.22	ppb v/v			11/05/19 22:53	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/05/19 22:53	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 22:53	1
Methylene Chloride	0.62	B-UB	0.40	0.16	ppb v/v			11/05/19 22:53	1
m-Xylene & p-Xylene	0.32		0.080	0.029	ppb v/v			11/05/19 22:53	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/05/19 22:53	1
n-Butane	2.5		0.16	0.083	ppb v/v			11/05/19 22:53	1
n-Decane	0.27	J	0.40	0.038	ppb v/v			11/05/19 22:53	1
n-Dodecane	0.51		0.40	0.064	ppb v/v			11/05/19 22:53	1
n-Octane	0.044	J	0.16	0.016	ppb v/v			11/05/19 22:53	1
Nonane	0.043	J	0.20	0.018	ppb v/v			11/05/19 22:53	1
n-Undecane	0.13	J	0.40	0.048	ppb v/v			11/05/19 22:53	1
o-Xylene	0.14		0.080	0.015	ppb v/v			11/05/19 22:53	1
Pentane	0.46		0.40	0.079	ppb v/v			11/05/19 22:53	1
Propene	1.3	ET J	1.0	1.0	ppb v/v			11/05/19 22:53	1
Styrene	0.069	J	0.080	0.024	ppb v/v			11/05/19 22:53	1
Tetrachloroethene	0.084		0.080	0.0070	ppb v/v			11/05/19 22:53	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 22:53	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 22:53	1
Toluene	0.47		0.12	0.078	ppb v/v			11/05/19 22:53	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/05/19 22:53	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 22:53	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 170 - IA - 2

Lab Sample ID: 140-17206-2

Date Collected: 10/31/19 16:14

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/05/19 22:53	1
Trichlorofluoromethane	0.22		0.080	0.011	ppb v/v			11/05/19 22:53	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/05/19 22:53	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 22:53	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 22:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	0.61	0.061	ug/m3			11/05/19 22:53	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 22:53	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/05/19 22:53	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 22:53	1
1,2,3-Trimethylbenzene	ND		0.39	0.18	ug/m3			11/05/19 22:53	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 22:53	1
1,2,4-Trimethylbenzene	0.42		0.39	0.098	ug/m3			11/05/19 22:53	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 22:53	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.13	J	0.56	0.084	ug/m3			11/05/19 22:53	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 22:53	1
1,2-Dichloroethane	0.22	J	0.32	0.040	ug/m3			11/05/19 22:53	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 22:53	1
1,3,5-Trimethylbenzene	0.14	J	0.39	0.11	ug/m3			11/05/19 22:53	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 22:53	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 22:53	1
1,4-Dichlorobenzene	0.51		0.48	0.096	ug/m3			11/05/19 22:53	1
1,4-Dioxane	0.13	J	0.72	0.11	ug/m3			11/05/19 22:53	1
2,2,4-Trimethylpentane	0.34	J	0.93	0.037	ug/m3			11/05/19 22:53	1
2,3-Dimethylpentane	ND		0.33	0.11	ug/m3			11/05/19 22:53	1
2-Butanone (MEK)	1.4		0.94	0.22	ug/m3			11/05/19 22:53	1
2-Hexanone	0.19	J	0.82	0.066	ug/m3			11/05/19 22:53	1
2-Methylbutane	2.0		0.59	0.19	ug/m3			11/05/19 22:53	1
2-Methylpentane	0.45		0.28	0.049	ug/m3			11/05/19 22:53	1
4-Ethyltoluene	ND		0.79	0.10	ug/m3			11/05/19 22:53	1
4-Methyl-2-pentanone (MIBK)	0.95		0.82	0.22	ug/m3			11/05/19 22:53	1
Acetone	16	et-J	4.8	1.3	ug/m3			11/05/19 22:53	1
Benzene	0.51		0.26	0.026	ug/m3			11/05/19 22:53	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 22:53	1
Bromodichloromethane	ND		0.54	0.12	ug/m3			11/05/19 22:53	1
Bromoform	ND	UJ	0.83	0.093	ug/m3			11/05/19 22:53	1
Bromomethane	0.086	J	0.31	0.085	ug/m3			11/05/19 22:53	1
Carbon disulfide	0.39	J	0.62	0.034	ug/m3			11/05/19 22:53	1
Carbon tetrachloride	0.50		0.20	0.044	ug/m3			11/05/19 22:53	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 22:53	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 22:53	1
Chloroform	0.57		0.39	0.034	ug/m3			11/05/19 22:53	1
Chloromethane	2.0		0.41	0.14	ug/m3			11/05/19 22:53	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/05/19 22:53	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 22:53	1
Cyclohexane	0.22	J	0.69	0.079	ug/m3			11/05/19 22:53	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/05/19 22:53	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 170 - IA - 2

Lab Sample ID: 140-17206-2

Date Collected: 10/31/19 16:14

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.3		0.40	0.069	ug/m3			11/05/19 22:53	1
Ethylbenzene	0.36		0.35	0.056	ug/m3			11/05/19 22:53	1
Heptane	0.38	J	0.82	0.057	ug/m3			11/05/19 22:53	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 22:53	1
Hexane	0.50	J	0.70	0.046	ug/m3			11/05/19 22:53	1
Indane	ND		0.39	0.17	ug/m3			11/05/19 22:53	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 22:53	1
Isopropyl alcohol	4.8		2.0	0.54	ug/m3			11/05/19 22:53	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/05/19 22:53	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 22:53	1
Methylene Chloride	2.2	B-UB	1.4	0.56	ug/m3			11/05/19 22:53	1
m-Xylene & p-Xylene	1.4		0.35	0.13	ug/m3			11/05/19 22:53	1
Naphthalene	ND		1.0	0.40	ug/m3			11/05/19 22:53	1
n-Butane	6.0		0.38	0.20	ug/m3			11/05/19 22:53	1
n-Decane	1.6	J	2.3	0.22	ug/m3			11/05/19 22:53	1
n-Dodecane	3.5		2.8	0.45	ug/m3			11/05/19 22:53	1
n-Octane	0.21	J	0.75	0.075	ug/m3			11/05/19 22:53	1
Nonane	0.23	J	1.0	0.094	ug/m3			11/05/19 22:53	1
n-Undecane	0.86	J	2.6	0.31	ug/m3			11/05/19 22:53	1
o-Xylene	0.61		0.35	0.065	ug/m3			11/05/19 22:53	1
Pentane	1.3		1.2	0.23	ug/m3			11/05/19 22:53	1
Propene	2.3	er J	1.7	1.7	ug/m3			11/05/19 22:53	1
Styrene	0.30	J	0.34	0.10	ug/m3			11/05/19 22:53	1
Tetrachloroethene	0.57		0.54	0.047	ug/m3			11/05/19 22:53	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 22:53	1
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 22:53	1
Toluene	1.8		0.45	0.29	ug/m3			11/05/19 22:53	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/05/19 22:53	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 22:53	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/05/19 22:53	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/05/19 22:53	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/05/19 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140					11/05/19 22:53	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.16	0.16	% v/v			11/07/19 12:15	1.63

Client Sample ID: JR - 1115 - IA - 1

Lab Sample ID: 140-17206-3

Date Collected: 10/31/19 16:31

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 23:50	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 23:50	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 1

Lab Sample ID: 140-17206-3

Date Collected: 10/31/19 16:31

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.080	0.0080	ppb v/v			11/05/19 23:50	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 23:50	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 23:50	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 23:50	1
1,2,3-Trimethylbenzene	0.069	J	0.080	0.036	ppb v/v			11/05/19 23:50	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 23:50	1
1,2,4-Trimethylbenzene	0.087		0.080	0.020	ppb v/v			11/05/19 23:50	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 23:50	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/05/19 23:50	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 23:50	1
1,2-Dichloroethane	0.029	J	0.080	0.010	ppb v/v			11/05/19 23:50	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 23:50	1
1,3,5-Trimethylbenzene	0.024	J	0.080	0.022	ppb v/v			11/05/19 23:50	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 23:50	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 23:50	1
1,4-Dichlorobenzene	0.67		0.080	0.016	ppb v/v			11/05/19 23:50	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/05/19 23:50	1
2,2,4-Trimethylpentane	0.081	J	0.20	0.0080	ppb v/v			11/05/19 23:50	1
2,3-Dimethylpentane	0.027	J	0.080	0.026	ppb v/v			11/05/19 23:50	1
2-Butanone (MEK)	0.80		0.32	0.073	ppb v/v			11/05/19 23:50	1
2-Hexanone	0.090	J	0.20	0.016	ppb v/v			11/05/19 23:50	1
2-Methylbutane	1.6		0.20	0.063	ppb v/v			11/05/19 23:50	1
2-Methylpentane	0.14		0.080	0.014	ppb v/v			11/05/19 23:50	1
4-Ethyltoluene	0.12	J	0.16	0.021	ppb v/v			11/05/19 23:50	1
4-Methyl-2-pentanone (MIBK)	0.13	J	0.20	0.054	ppb v/v			11/05/19 23:50	1
Acetone	13	et J	2.0	0.57	ppb v/v			11/05/19 23:50	1
Benzene	0.38		0.080	0.0080	ppb v/v			11/05/19 23:50	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 23:50	1
Bromodichloromethane	0.035	J	0.080	0.018	ppb v/v			11/05/19 23:50	1
Bromoform	ND	us	0.080	0.0090	ppb v/v			11/05/19 23:50	1
Bromomethane	0.023	J	0.080	0.022	ppb v/v			11/05/19 23:50	1
Carbon disulfide	0.045	J	0.20	0.011	ppb v/v			11/05/19 23:50	1
Carbon tetrachloride	0.080		0.032	0.0070	ppb v/v			11/05/19 23:50	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 23:50	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 23:50	1
Chloroform	0.90		0.080	0.0070	ppb v/v			11/05/19 23:50	1
Chloromethane	1.1	et J	0.20	0.066	ppb v/v			11/05/19 23:50	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/05/19 23:50	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 23:50	1
Cyclohexane	0.075	J	0.20	0.023	ppb v/v			11/05/19 23:50	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/05/19 23:50	1
Dichlorodifluoromethane	0.26		0.080	0.014	ppb v/v			11/05/19 23:50	1
Ethylbenzene	0.074	J	0.080	0.013	ppb v/v			11/05/19 23:50	1
Heptane	0.15	J	0.20	0.014	ppb v/v			11/05/19 23:50	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 23:50	1
Hexane	0.18	J	0.20	0.013	ppb v/v			11/05/19 23:50	1
Indane	ND		0.080	0.035	ppb v/v			11/05/19 23:50	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 1

Lab Sample ID: 140-17206-3

Date Collected: 10/31/19 16:31

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		0.16	0.039	ppb v/v			11/05/19 23:50	1
Isopropyl alcohol	8.0		0.80	0.22	ppb v/v			11/05/19 23:50	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/05/19 23:50	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 23:50	1
Methylene Chloride	0.93	B-UB	0.40	0.16	ppb v/v			11/05/19 23:50	1
m-Xylene & p-Xylene	0.24		0.080	0.029	ppb v/v			11/05/19 23:50	1
Naphthalene	0.17	J	0.20	0.076	ppb v/v			11/05/19 23:50	1
n-Butane	19	E J	0.16	0.083	ppb v/v			11/05/19 23:50	1
n-Decane	0.33	J	0.40	0.038	ppb v/v			11/05/19 23:50	1
n-Dodecane	0.29	J	0.40	0.064	ppb v/v			11/05/19 23:50	1
n-Octane	0.12	J	0.16	0.016	ppb v/v			11/05/19 23:50	1
Nonane	0.14	J	0.20	0.018	ppb v/v			11/05/19 23:50	1
n-Undecane	0.12	J	0.40	0.048	ppb v/v			11/05/19 23:50	1
o-Xylene	0.086		0.080	0.015	ppb v/v			11/05/19 23:50	1
Pentane	1.0		0.40	0.079	ppb v/v			11/05/19 23:50	1
Propene	3.2	G J	1.0	1.0	ppb v/v			11/05/19 23:50	1
Styrene	0.16		0.080	0.024	ppb v/v			11/05/19 23:50	1
Tetrachloroethene	0.097		0.080	0.0070	ppb v/v			11/05/19 23:50	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 23:50	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 23:50	1
Toluene	0.75		0.12	0.078	ppb v/v			11/05/19 23:50	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/05/19 23:50	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 23:50	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/05/19 23:50	1
Trichlorofluoromethane	0.22		0.080	0.011	ppb v/v			11/05/19 23:50	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/05/19 23:50	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 23:50	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 23:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	0.61	0.061	ug/m3			11/05/19 23:50	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 23:50	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/05/19 23:50	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 23:50	1
1,2,3-Trimethylbenzene	0.34	J	0.39	0.18	ug/m3			11/05/19 23:50	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 23:50	1
1,2,4-Trimethylbenzene	0.43		0.39	0.098	ug/m3			11/05/19 23:50	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 23:50	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/05/19 23:50	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 23:50	1
1,2-Dichloroethane	0.12	J	0.32	0.040	ug/m3			11/05/19 23:50	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 23:50	1
1,3,5-Trimethylbenzene	0.12	J	0.39	0.11	ug/m3			11/05/19 23:50	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 23:50	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 23:50	1
1,4-Dichlorobenzene	4.0		0.48	0.096	ug/m3			11/05/19 23:50	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/05/19 23:50	1
2,2,4-Trimethylpentane	0.38	J	0.93	0.037	ug/m3			11/05/19 23:50	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 1

Lab Sample ID: 140-17206-3

Date Collected: 10/31/19 16:31

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	0.11	J	0.33	0.11	ug/m3			11/05/19 23:50	1
2-Butanone (MEK)	2.4		0.94	0.22	ug/m3			11/05/19 23:50	1
2-Hexanone	0.37	J	0.82	0.066	ug/m3			11/05/19 23:50	1
2-Methylbutane	4.7		0.59	0.19	ug/m3			11/05/19 23:50	1
2-Methylpentane	0.49		0.28	0.049	ug/m3			11/05/19 23:50	1
4-Ethyltoluene	0.57	J	0.79	0.10	ug/m3			11/05/19 23:50	1
4-Methyl-2-pentanone (MIBK)	0.53	J	0.82	0.22	ug/m3			11/05/19 23:50	1
Acetone	30	et-J	4.8	1.3	ug/m3			11/05/19 23:50	1
Benzene	1.2		0.26	0.026	ug/m3			11/05/19 23:50	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 23:50	1
Bromodichloromethane	0.24	J	0.54	0.12	ug/m3			11/05/19 23:50	1
Bromoform	ND	us	0.83	0.093	ug/m3			11/05/19 23:50	1
Bromomethane	0.088	J	0.31	0.085	ug/m3			11/05/19 23:50	1
Carbon disulfide	0.14	J	0.62	0.034	ug/m3			11/05/19 23:50	1
Carbon tetrachloride	0.50		0.20	0.044	ug/m3			11/05/19 23:50	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 23:50	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 23:50	1
Chloroform	4.4		0.39	0.034	ug/m3			11/05/19 23:50	1
Chloromethane	2.3	et-J	0.41	0.14	ug/m3			11/05/19 23:50	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/05/19 23:50	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 23:50	1
Cyclohexane	0.26	J	0.69	0.079	ug/m3			11/05/19 23:50	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/05/19 23:50	1
Dichlorodifluoromethane	1.3		0.40	0.069	ug/m3			11/05/19 23:50	1
Ethylbenzene	0.32	J	0.35	0.056	ug/m3			11/05/19 23:50	1
Heptane	0.62	J	0.82	0.057	ug/m3			11/05/19 23:50	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 23:50	1
Hexane	0.64	J	0.70	0.046	ug/m3			11/05/19 23:50	1
Indane	ND		0.39	0.17	ug/m3			11/05/19 23:50	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 23:50	1
Isopropyl alcohol	20		2.0	0.54	ug/m3			11/05/19 23:50	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/05/19 23:50	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 23:50	1
Methylene Chloride	3.2	B-UB	1.4	0.56	ug/m3			11/05/19 23:50	1
m-Xylene & p-Xylene	1.0		0.35	0.13	ug/m3			11/05/19 23:50	1
Naphthalene	0.89	J	1.0	0.40	ug/m3			11/05/19 23:50	1
n-Butane	46	E-J	0.38	0.20	ug/m3			11/05/19 23:50	1
n-Decane	1.9	J	2.3	0.22	ug/m3			11/05/19 23:50	1
n-Dodecane	2.0	J	2.8	0.45	ug/m3			11/05/19 23:50	1
n-Octane	0.55	J	0.75	0.075	ug/m3			11/05/19 23:50	1
Nonane	0.73	J	1.0	0.094	ug/m3			11/05/19 23:50	1
n-Undecane	0.79	J	2.6	0.31	ug/m3			11/05/19 23:50	1
o-Xylene	0.37		0.35	0.065	ug/m3			11/05/19 23:50	1
Pentane	2.9		1.2	0.23	ug/m3			11/05/19 23:50	1
Propene	5.5	et-J	1.7	1.7	ug/m3			11/05/19 23:50	1
Styrene	0.67		0.34	0.10	ug/m3			11/05/19 23:50	1
Tetrachloroethene	0.66		0.54	0.047	ug/m3			11/05/19 23:50	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 23:50	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 1

Lab Sample ID: 140-17206-3

Date Collected: 10/31/19 16:31

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 23:50	1
Toluene	2.8		0.45	0.29	ug/m3			11/05/19 23:50	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/05/19 23:50	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 23:50	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/05/19 23:50	1
Trichlorofluoromethane	1.2		0.45	0.062	ug/m3			11/05/19 23:50	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/05/19 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		60 - 140					11/05/19 23:50	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.16	0.16	% v/v			11/07/19 12:32	1.61

Client Sample ID: JR - 1115 - IA - 2

Lab Sample ID: 140-17206-4

Date Collected: 10/31/19 16:14

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/06/19 00:48	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/06/19 00:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.074	J	0.080	0.0080	ppb v/v			11/06/19 00:48	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/06/19 00:48	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/06/19 00:48	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/06/19 00:48	1
1,2,3-Trimethylbenzene	0.040	J	0.080	0.036	ppb v/v			11/06/19 00:48	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/06/19 00:48	1
1,2,4-Trimethylbenzene	0.092		0.080	0.020	ppb v/v			11/06/19 00:48	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/06/19 00:48	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/06/19 00:48	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/06/19 00:48	1
1,2-Dichloroethane	0.014	J	0.080	0.010	ppb v/v			11/06/19 00:48	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/06/19 00:48	1
1,3,5-Trimethylbenzene	0.029	J	0.080	0.022	ppb v/v			11/06/19 00:48	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/06/19 00:48	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/06/19 00:48	1
1,4-Dichlorobenzene	0.061	J	0.080	0.016	ppb v/v			11/06/19 00:48	1
1,4-Dioxane	0.034	J	0.20	0.030	ppb v/v			11/06/19 00:48	1
2,2,4-Trimethylpentane	0.081	J	0.20	0.0080	ppb v/v			11/06/19 00:48	1
2,3-Dimethylpentane	0.028	J	0.080	0.026	ppb v/v			11/06/19 00:48	1
2-Butanone (MEK)	0.62		0.32	0.073	ppb v/v			11/06/19 00:48	1
2-Hexanone	0.092	J	0.20	0.016	ppb v/v			11/06/19 00:48	1
2-Methylbutane	0.79		0.20	0.063	ppb v/v			11/06/19 00:48	1
2-Methylpentane	0.13		0.080	0.014	ppb v/v			11/06/19 00:48	1
4-Ethyltoluene	ND		0.16	0.021	ppb v/v			11/06/19 00:48	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 2

Lab Sample ID: 140-17206-4

Date Collected: 10/31/19 16:14

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	0.20		0.20	0.054	ppb v/v			11/06/19 00:48	1
Acetone	9.4	CH	2.0	0.57	ppb v/v			11/06/19 00:48	1
Benzene	0.27		0.080	0.0080	ppb v/v			11/06/19 00:48	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/06/19 00:48	1
Bromodichloromethane	0.065	J	0.080	0.018	ppb v/v			11/06/19 00:48	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/06/19 00:48	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/06/19 00:48	1
Carbon disulfide	0.15	J	0.20	0.011	ppb v/v			11/06/19 00:48	1
Carbon tetrachloride	0.081		0.032	0.0070	ppb v/v			11/06/19 00:48	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/06/19 00:48	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/06/19 00:48	1
Chloroform	0.58		0.080	0.0070	ppb v/v			11/06/19 00:48	1
Chloromethane	0.82	CH	0.20	0.066	ppb v/v			11/06/19 00:48	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/06/19 00:48	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/06/19 00:48	1
Cyclohexane	0.076	J	0.20	0.023	ppb v/v			11/06/19 00:48	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/06/19 00:48	1
Dichlorodifluoromethane	0.26		0.080	0.014	ppb v/v			11/06/19 00:48	1
Ethylbenzene	0.066	J	0.080	0.013	ppb v/v			11/06/19 00:48	1
Heptane	0.15	J	0.20	0.014	ppb v/v			11/06/19 00:48	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/06/19 00:48	1
Hexane	0.21		0.20	0.013	ppb v/v			11/06/19 00:48	1
Indane	ND		0.080	0.035	ppb v/v			11/06/19 00:48	1
Indene	ND		0.16	0.039	ppb v/v			11/06/19 00:48	1
Isopropyl alcohol	1.4		0.80	0.22	ppb v/v			11/06/19 00:48	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/06/19 00:48	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/06/19 00:48	1
Methylene Chloride	1.5	B	0.40	0.16	ppb v/v			11/06/19 00:48	1
m-Xylene & p-Xylene	0.21		0.080	0.029	ppb v/v			11/06/19 00:48	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/06/19 00:48	1
n-Butane	9.1		0.16	0.083	ppb v/v			11/06/19 00:48	1
n-Decane	6.8		0.40	0.038	ppb v/v			11/06/19 00:48	1
n-Dodecane	2.9		0.40	0.064	ppb v/v			11/06/19 00:48	1
n-Octane	0.34		0.16	0.016	ppb v/v			11/06/19 00:48	1
Nonane	4.6		0.20	0.018	ppb v/v			11/06/19 00:48	1
n-Undecane	2.7		0.40	0.048	ppb v/v			11/06/19 00:48	1
o-Xylene	0.082		0.080	0.015	ppb v/v			11/06/19 00:48	1
Pentane	0.50		0.40	0.079	ppb v/v			11/06/19 00:48	1
Propene	2.8	CH	1.0	1.0	ppb v/v			11/06/19 00:48	1
Styrene	0.051	J	0.080	0.024	ppb v/v			11/06/19 00:48	1
Tetrachloroethene	0.085		0.080	0.0070	ppb v/v			11/06/19 00:48	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/06/19 00:48	1
Thiophene	ND		0.080	0.011	ppb v/v			11/06/19 00:48	1
Toluene	0.97		0.12	0.078	ppb v/v			11/06/19 00:48	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/06/19 00:48	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/06/19 00:48	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/06/19 00:48	1
Trichlorofluoromethane	0.24		0.080	0.011	ppb v/v			11/06/19 00:48	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 2

Lab Sample ID: 140-17206-4

Date Collected: 10/31/19 16:14

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/06/19 00:48	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/06/19 00:48	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/06/19 00:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	0.61	0.061	ug/m3			11/06/19 00:48	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/06/19 00:48	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/06/19 00:48	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/06/19 00:48	1
1,2,3-Trimethylbenzene	0.20	J	0.39	0.18	ug/m3			11/06/19 00:48	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/06/19 00:48	1
1,2,4-Trimethylbenzene	0.45		0.39	0.098	ug/m3			11/06/19 00:48	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/06/19 00:48	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/06/19 00:48	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/06/19 00:48	1
1,2-Dichloroethane	0.055	J	0.32	0.040	ug/m3			11/06/19 00:48	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/06/19 00:48	1
1,3,5-Trimethylbenzene	0.14	J	0.39	0.11	ug/m3			11/06/19 00:48	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/06/19 00:48	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/06/19 00:48	1
1,4-Dichlorobenzene	0.37	J	0.48	0.096	ug/m3			11/06/19 00:48	1
1,4-Dioxane	0.12	J	0.72	0.11	ug/m3			11/06/19 00:48	1
2,2,4-Trimethylpentane	0.38	J	0.93	0.037	ug/m3			11/06/19 00:48	1
2,3-Dimethylpentane	0.11	J	0.33	0.11	ug/m3			11/06/19 00:48	1
2-Butanone (MEK)	1.8		0.94	0.22	ug/m3			11/06/19 00:48	1
2-Hexanone	0.38	J	0.82	0.066	ug/m3			11/06/19 00:48	1
2-Methylbutane	2.3		0.59	0.19	ug/m3			11/06/19 00:48	1
2-Methylpentane	0.45		0.28	0.049	ug/m3			11/06/19 00:48	1
4-Ethyltoluene	ND		0.79	0.10	ug/m3			11/06/19 00:48	1
4-Methyl-2-pentanone (MIBK)	0.84		0.82	0.22	ug/m3			11/06/19 00:48	1
Acetone	22	et J	4.8	1.3	ug/m3			11/06/19 00:48	1
Benzene	0.85		0.26	0.026	ug/m3			11/06/19 00:48	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/06/19 00:48	1
Bromodichloromethane	0.44	J	0.54	0.12	ug/m3			11/06/19 00:48	1
Bromoform	ND	u)	0.83	0.093	ug/m3			11/06/19 00:48	1
Bromomethane	ND		0.31	0.085	ug/m3			11/06/19 00:48	1
Carbon disulfide	0.45	J	0.62	0.034	ug/m3			11/06/19 00:48	1
Carbon tetrachloride	0.51		0.20	0.044	ug/m3			11/06/19 00:48	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/06/19 00:48	1
Chloroethane	ND		0.21	0.077	ug/m3			11/06/19 00:48	1
Chloroform	2.8		0.39	0.034	ug/m3			11/06/19 00:48	1
Chloromethane	1.7	et J	0.41	0.14	ug/m3			11/06/19 00:48	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/06/19 00:48	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/06/19 00:48	1
Cyclohexane	0.26	J	0.69	0.079	ug/m3			11/06/19 00:48	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/06/19 00:48	1
Dichlorodifluoromethane	1.3		0.40	0.069	ug/m3			11/06/19 00:48	1
Ethylbenzene	0.29	J	0.35	0.056	ug/m3			11/06/19 00:48	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 2

Lab Sample ID: 140-17206-4

Date Collected: 10/31/19 16:14

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptane	0.60	J	0.82	0.057	ug/m3			11/06/19 00:48	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/06/19 00:48	1
Hexane	0.75		0.70	0.046	ug/m3			11/06/19 00:48	1
Indane	ND		0.39	0.17	ug/m3			11/06/19 00:48	1
Indene	ND		0.76	0.19	ug/m3			11/06/19 00:48	1
Isopropyl alcohol	3.5		2.0	0.54	ug/m3			11/06/19 00:48	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/06/19 00:48	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/06/19 00:48	1
Methylene Chloride	5.4	B	1.4	0.56	ug/m3			11/06/19 00:48	1
m-Xylene & p-Xylene	0.92		0.35	0.13	ug/m3			11/06/19 00:48	1
Naphthalene	ND		1.0	0.40	ug/m3			11/06/19 00:48	1
n-Butane	22		0.38	0.20	ug/m3			11/06/19 00:48	1
n-Decane	40		2.3	0.22	ug/m3			11/06/19 00:48	1
n-Dodecane	20		2.8	0.45	ug/m3			11/06/19 00:48	1
n-Octane	1.6		0.75	0.075	ug/m3			11/06/19 00:48	1
Nonane	24		1.0	0.094	ug/m3			11/06/19 00:48	1
n-Undecane	17		2.6	0.31	ug/m3			11/06/19 00:48	1
o-Xylene	0.36		0.35	0.065	ug/m3			11/06/19 00:48	1
Pentane	1.5		1.2	0.23	ug/m3			11/06/19 00:48	1
Propene	4.9	C	1.7	1.7	ug/m3			11/06/19 00:48	1
Styrene	0.22	J	0.34	0.10	ug/m3			11/06/19 00:48	1
Tetrachloroethene	0.58		0.54	0.047	ug/m3			11/06/19 00:48	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/06/19 00:48	1
Thiophene	ND		0.28	0.038	ug/m3			11/06/19 00:48	1
Toluene	3.7		0.45	0.29	ug/m3			11/06/19 00:48	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/06/19 00:48	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/06/19 00:48	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/06/19 00:48	1
Trichlorofluoromethane	1.4		0.45	0.062	ug/m3			11/06/19 00:48	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/06/19 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140					11/06/19 00:48	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.16	0.16	% v/v			11/07/19 12:49	1.58

Client Sample ID: JR - 1115 - IA - 3

Lab Sample ID: 140-17206-5

Date Collected: 10/31/19 16:30

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/06/19 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/06/19 01:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.080	0.0080	ppb v/v			11/06/19 01:46	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/06/19 01:46	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 3

Lab Sample ID: 140-17206-5

Date Collected: 10/31/19 16:30

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/06/19 01:46	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/06/19 01:46	1
1,2,3-Trimethylbenzene	0.053	J	0.080	0.036	ppb v/v			11/06/19 01:46	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/06/19 01:46	1
1,2,4-Trimethylbenzene	0.076	J	0.080	0.020	ppb v/v			11/06/19 01:46	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/06/19 01:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/06/19 01:46	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/06/19 01:46	1
1,2-Dichloroethane	0.039	J	0.080	0.010	ppb v/v			11/06/19 01:46	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/06/19 01:46	1
1,3,5-Trimethylbenzene	0.028	J	0.080	0.022	ppb v/v			11/06/19 01:46	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/06/19 01:46	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/06/19 01:46	1
1,4-Dichlorobenzene	0.24		0.080	0.016	ppb v/v			11/06/19 01:46	1
1,4-Dioxane	0.061	J	0.20	0.030	ppb v/v			11/06/19 01:46	1
2,2,4-Trimethylpentane	0.078	J	0.20	0.0080	ppb v/v			11/06/19 01:46	1
2,3-Dimethylpentane	0.028	J	0.080	0.026	ppb v/v			11/06/19 01:46	1
2-Butanone (MEK)	0.49		0.32	0.073	ppb v/v			11/06/19 01:46	1
2-Hexanone	0.044	J	0.20	0.016	ppb v/v			11/06/19 01:46	1
2-Methylbutane	1.1		0.20	0.063	ppb v/v			11/06/19 01:46	1
2-Methylpentane	0.14		0.080	0.014	ppb v/v			11/06/19 01:46	1
4-Ethyltoluene	0.11	J	0.16	0.021	ppb v/v			11/06/19 01:46	1
4-Methyl-2-pentanone (MIBK)	0.078	J	0.20	0.054	ppb v/v			11/06/19 01:46	1
Acetone	8.7	GT	2.0	0.57	ppb v/v			11/06/19 01:46	1
Benzene	0.24		0.080	0.0080	ppb v/v			11/06/19 01:46	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/06/19 01:46	1
Bromodichloromethane	0.036	J	0.080	0.018	ppb v/v			11/06/19 01:46	1
Bromoform	ND	UJ	0.080	0.0090	ppb v/v			11/06/19 01:46	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/06/19 01:46	1
Carbon disulfide	0.28		0.20	0.011	ppb v/v			11/06/19 01:46	1
Carbon tetrachloride	0.082		0.032	0.0070	ppb v/v			11/06/19 01:46	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/06/19 01:46	1
Chloroethane	0.029	J	0.080	0.029	ppb v/v			11/06/19 01:46	1
Chloroform	0.60		0.080	0.0070	ppb v/v			11/06/19 01:46	1
Chloromethane	0.88	GT	0.20	0.066	ppb v/v			11/06/19 01:46	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/06/19 01:46	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/06/19 01:46	1
Cyclohexane	0.069	J	0.20	0.023	ppb v/v			11/06/19 01:46	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/06/19 01:46	1
Dichlorodifluoromethane	0.28		0.080	0.014	ppb v/v			11/06/19 01:46	1
Ethylbenzene	0.062	J	0.080	0.013	ppb v/v			11/06/19 01:46	1
Heptane	0.11	J	0.20	0.014	ppb v/v			11/06/19 01:46	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/06/19 01:46	1
Hexane	0.20		0.20	0.013	ppb v/v			11/06/19 01:46	1
Indane	ND		0.080	0.035	ppb v/v			11/06/19 01:46	1
Indene	ND		0.16	0.039	ppb v/v			11/06/19 01:46	1
Isopropyl alcohol	4.6		0.80	0.22	ppb v/v			11/06/19 01:46	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/06/19 01:46	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 3

Lab Sample ID: 140-17206-5

Date Collected: 10/31/19 16:30

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/06/19 01:46	1
Methylene Chloride	1.0	B-UB	0.40	0.16	ppb v/v			11/06/19 01:46	1
m-Xylene & p-Xylene	0.20		0.080	0.029	ppb v/v			11/06/19 01:46	1
Naphthalene	0.088	J	0.20	0.076	ppb v/v			11/06/19 01:46	1
n-Butane	9.9		0.16	0.083	ppb v/v			11/06/19 01:46	1
n-Decane	0.27	J	0.40	0.038	ppb v/v			11/06/19 01:46	1
n-Dodecane	0.21	J	0.40	0.064	ppb v/v			11/06/19 01:46	1
n-Octane	0.066	J	0.16	0.016	ppb v/v			11/06/19 01:46	1
Nonane	0.097	J	0.20	0.018	ppb v/v			11/06/19 01:46	1
n-Undecane	0.088	J	0.40	0.048	ppb v/v			11/06/19 01:46	1
o-Xylene	0.078	J	0.080	0.015	ppb v/v			11/06/19 01:46	1
Pentane	0.74		0.40	0.079	ppb v/v			11/06/19 01:46	1
Propene	1.9	-G-	1.0	1.0	ppb v/v			11/06/19 01:46	1
Styrene	0.072	J	0.080	0.024	ppb v/v			11/06/19 01:46	1
Tetrachloroethene	0.13		0.080	0.0070	ppb v/v			11/06/19 01:46	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/06/19 01:46	1
Thiophene	ND		0.080	0.011	ppb v/v			11/06/19 01:46	1
Toluene	0.64		0.12	0.078	ppb v/v			11/06/19 01:46	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/06/19 01:46	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/06/19 01:46	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/06/19 01:46	1
Trichlorofluoromethane	0.24		0.080	0.011	ppb v/v			11/06/19 01:46	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/06/19 01:46	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/06/19 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/06/19 01:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	0.61	0.061	ug/m3			11/06/19 01:46	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/06/19 01:46	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/06/19 01:46	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/06/19 01:46	1
1,2,3-Trimethylbenzene	0.26	J	0.39	0.18	ug/m3			11/06/19 01:46	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/06/19 01:46	1
1,2,4-Trimethylbenzene	0.37	J	0.39	0.098	ug/m3			11/06/19 01:46	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/06/19 01:46	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/06/19 01:46	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/06/19 01:46	1
1,2-Dichloroethane	0.16	J	0.32	0.040	ug/m3			11/06/19 01:46	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/06/19 01:46	1
1,3,5-Trimethylbenzene	0.14	J	0.39	0.11	ug/m3			11/06/19 01:46	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/06/19 01:46	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/06/19 01:46	1
1,4-Dichlorobenzene	1.5		0.48	0.096	ug/m3			11/06/19 01:46	1
1,4-Dioxane	0.22	J	0.72	0.11	ug/m3			11/06/19 01:46	1
2,2,4-Trimethylpentane	0.36	J	0.93	0.037	ug/m3			11/06/19 01:46	1
2,3-Dimethylpentane	0.12	J	0.33	0.11	ug/m3			11/06/19 01:46	1
2-Butanone (MEK)	1.4		0.94	0.22	ug/m3			11/06/19 01:46	1
2-Hexanone	0.18	J	0.82	0.066	ug/m3			11/06/19 01:46	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 3

Lab Sample ID: 140-17206-5

Date Collected: 10/31/19 16:30

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylbutane	3.3		0.59	0.19	ug/m3			11/06/19 01:46	1
2-Methylpentane	0.49		0.28	0.049	ug/m3			11/06/19 01:46	1
4-Ethyltoluene	0.54	J	0.79	0.10	ug/m3			11/06/19 01:46	1
4-Methyl-2-pentanone (MIBK)	0.32	J	0.82	0.22	ug/m3			11/06/19 01:46	1
Acetone	21	GT J	4.8	1.3	ug/m3			11/06/19 01:46	1
Benzene	0.76		0.26	0.026	ug/m3			11/06/19 01:46	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/06/19 01:46	1
Bromodichloromethane	0.24	J	0.54	0.12	ug/m3			11/06/19 01:46	1
Bromoform	ND	UJ	0.83	0.093	ug/m3			11/06/19 01:46	1
Bromomethane	ND		0.31	0.085	ug/m3			11/06/19 01:46	1
Carbon disulfide	0.87		0.62	0.034	ug/m3			11/06/19 01:46	1
Carbon tetrachloride	0.51		0.20	0.044	ug/m3			11/06/19 01:46	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/06/19 01:46	1
Chloroethane	0.076	J	0.21	0.077	ug/m3			11/06/19 01:46	1
Chloroform	2.9		0.39	0.034	ug/m3			11/06/19 01:46	1
Chloromethane	1.8	GT J	0.41	0.14	ug/m3			11/06/19 01:46	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/06/19 01:46	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/06/19 01:46	1
Cyclohexane	0.24	J	0.69	0.079	ug/m3			11/06/19 01:46	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/06/19 01:46	1
Dichlorodifluoromethane	1.4		0.40	0.069	ug/m3			11/06/19 01:46	1
Ethylbenzene	0.27	J	0.35	0.056	ug/m3			11/06/19 01:46	1
Heptane	0.46	J	0.82	0.057	ug/m3			11/06/19 01:46	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/06/19 01:46	1
Hexane	0.71		0.70	0.046	ug/m3			11/06/19 01:46	1
Indane	ND		0.39	0.17	ug/m3			11/06/19 01:46	1
Indene	ND		0.76	0.19	ug/m3			11/06/19 01:46	1
Isopropyl alcohol	11		2.0	0.54	ug/m3			11/06/19 01:46	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/06/19 01:46	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/06/19 01:46	1
Methylene Chloride	3.5	B UB	1.4	0.56	ug/m3			11/06/19 01:46	1
m-Xylene & p-Xylene	0.89		0.35	0.13	ug/m3			11/06/19 01:46	1
Naphthalene	0.46	J	1.0	0.40	ug/m3			11/06/19 01:46	1
n-Butane	24		0.38	0.20	ug/m3			11/06/19 01:46	1
n-Decane	1.6	J	2.3	0.22	ug/m3			11/06/19 01:46	1
n-Dodecane	1.5	J	2.8	0.45	ug/m3			11/06/19 01:46	1
n-Octane	0.31	J	0.75	0.075	ug/m3			11/06/19 01:46	1
Nonane	0.51	J	1.0	0.094	ug/m3			11/06/19 01:46	1
n-Undecane	0.56	J	2.6	0.31	ug/m3			11/06/19 01:46	1
o-Xylene	0.34	J	0.35	0.065	ug/m3			11/06/19 01:46	1
Pentane	2.2		1.2	0.23	ug/m3			11/06/19 01:46	1
Propene	3.3	GT J	1.7	1.7	ug/m3			11/06/19 01:46	1
Styrene	0.31	J	0.34	0.10	ug/m3			11/06/19 01:46	1
Tetrachloroethene	0.90		0.54	0.047	ug/m3			11/06/19 01:46	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/06/19 01:46	1
Thiophene	ND		0.28	0.038	ug/m3			11/06/19 01:46	1
Toluene	2.4		0.45	0.29	ug/m3			11/06/19 01:46	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/06/19 01:46	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 3

Lab Sample ID: 140-17206-5

Date Collected: 10/31/19 16:30

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/06/19 01:46	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/06/19 01:46	1
Trichlorofluoromethane	1.4		0.45	0.062	ug/m3			11/06/19 01:46	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/06/19 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140		11/06/19 01:46	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.16	0.16	% v/v			11/07/19 13:05	1.55

Client Sample ID: JR - 1115 - IA - 4

Lab Sample ID: 140-17206-6

Date Collected: 10/31/19 16:13

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/06/19 02:43	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/06/19 02:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.080	0.0080	ppb v/v			11/06/19 02:43	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/06/19 02:43	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/06/19 02:43	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/06/19 02:43	1
1,2,3-Trimethylbenzene	ND		0.080	0.036	ppb v/v			11/06/19 02:43	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/06/19 02:43	1
1,2,4-Trimethylbenzene	0.067	J	0.080	0.020	ppb v/v			11/06/19 02:43	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/06/19 02:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.018	J	0.080	0.012	ppb v/v			11/06/19 02:43	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/06/19 02:43	1
1,2-Dichloroethane	0.014	J	0.080	0.010	ppb v/v			11/06/19 02:43	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/06/19 02:43	1
1,3,5-Trimethylbenzene	ND		0.080	0.022	ppb v/v			11/06/19 02:43	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/06/19 02:43	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/06/19 02:43	1
1,4-Dichlorobenzene	0.048	J	0.080	0.016	ppb v/v			11/06/19 02:43	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/06/19 02:43	1
2,2,4-Trimethylpentane	0.076	J	0.20	0.0080	ppb v/v			11/06/19 02:43	1
2,3-Dimethylpentane	ND		0.080	0.026	ppb v/v			11/06/19 02:43	1
2-Butanone (MEK)	0.50		0.32	0.073	ppb v/v			11/06/19 02:43	1
2-Hexanone	0.029	J	0.20	0.016	ppb v/v			11/06/19 02:43	1
2-Methylbutane	1.0		0.20	0.063	ppb v/v			11/06/19 02:43	1
2-Methylpentane	0.16		0.080	0.014	ppb v/v			11/06/19 02:43	1
4-Ethyltoluene	ND		0.16	0.021	ppb v/v			11/06/19 02:43	1
4-Methyl-2-pentanone (MIBK)	0.24		0.20	0.054	ppb v/v			11/06/19 02:43	1
Acetone	5.7		2.0	0.57	ppb v/v			11/06/19 02:43	1
Benzene	0.17		0.080	0.0080	ppb v/v			11/06/19 02:43	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 4

Lab Sample ID: 140-17206-6

Date Collected: 10/31/19 16:13

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/06/19 02:43	1
Bromodichloromethane	0.026	J	0.080	0.018	ppb v/v			11/06/19 02:43	1
Bromoform	ND	UJ	0.080	0.0090	ppb v/v			11/06/19 02:43	1
Bromomethane	0.023	J	0.080	0.022	ppb v/v			11/06/19 02:43	1
Carbon disulfide	0.24		0.20	0.011	ppb v/v			11/06/19 02:43	1
Carbon tetrachloride	0.075		0.032	0.0070	ppb v/v			11/06/19 02:43	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/06/19 02:43	1
Chloroethane	0.051	J	0.080	0.029	ppb v/v			11/06/19 02:43	1
Chloroform	0.24		0.080	0.0070	ppb v/v			11/06/19 02:43	1
Chloromethane	1.2		0.20	0.066	ppb v/v			11/06/19 02:43	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/06/19 02:43	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/06/19 02:43	1
Cyclohexane	0.067	J	0.20	0.023	ppb v/v			11/06/19 02:43	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/06/19 02:43	1
Dichlorodifluoromethane	0.29		0.080	0.014	ppb v/v			11/06/19 02:43	1
Ethylbenzene	0.054	J	0.080	0.013	ppb v/v			11/06/19 02:43	1
Heptane	0.085	J	0.20	0.014	ppb v/v			11/06/19 02:43	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/06/19 02:43	1
Hexane	0.16	J	0.20	0.013	ppb v/v			11/06/19 02:43	1
Indane	ND		0.080	0.035	ppb v/v			11/06/19 02:43	1
Indene	ND		0.16	0.039	ppb v/v			11/06/19 02:43	1
Isopropyl alcohol	1.5		0.80	0.22	ppb v/v			11/06/19 02:43	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/06/19 02:43	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/06/19 02:43	1
Methylene Chloride	0.51	B-UB	0.40	0.16	ppb v/v			11/06/19 02:43	1
m-Xylene & p-Xylene	0.18		0.080	0.029	ppb v/v			11/06/19 02:43	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/06/19 02:43	1
n-Butane	3.2		0.16	0.083	ppb v/v			11/06/19 02:43	1
n-Decane	0.46		0.40	0.038	ppb v/v			11/06/19 02:43	1
n-Dodecane	0.29	J	0.40	0.064	ppb v/v			11/06/19 02:43	1
n-Octane	0.057	J	0.16	0.016	ppb v/v			11/06/19 02:43	1
Nonane	0.23		0.20	0.018	ppb v/v			11/06/19 02:43	1
n-Undecane	0.18	J	0.40	0.048	ppb v/v			11/06/19 02:43	1
o-Xylene	0.068	J	0.080	0.015	ppb v/v			11/06/19 02:43	1
Pentane	0.54		0.40	0.079	ppb v/v			11/06/19 02:43	1
Propene	1.3	GT S	1.0	1.0	ppb v/v			11/06/19 02:43	1
Styrene	0.059	J	0.080	0.024	ppb v/v			11/06/19 02:43	1
Tetrachloroethene	0.092		0.080	0.0070	ppb v/v			11/06/19 02:43	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/06/19 02:43	1
Thiophene	ND		0.080	0.011	ppb v/v			11/06/19 02:43	1
Toluene	0.52		0.12	0.078	ppb v/v			11/06/19 02:43	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/06/19 02:43	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/06/19 02:43	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/06/19 02:43	1
Trichlorofluoromethane	0.23		0.080	0.011	ppb v/v			11/06/19 02:43	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/06/19 02:43	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/06/19 02:43	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 4

Lab Sample ID: 140-17206-6

Date Collected: 10/31/19 16:13

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/06/19 02:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	0.61	0.061	ug/m3			11/06/19 02:43	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/06/19 02:43	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/06/19 02:43	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/06/19 02:43	1
1,2,3-Trimethylbenzene	ND		0.39	0.18	ug/m3			11/06/19 02:43	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/06/19 02:43	1
1,2,4-Trimethylbenzene	0.33	J	0.39	0.098	ug/m3			11/06/19 02:43	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/06/19 02:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.13	J	0.56	0.084	ug/m3			11/06/19 02:43	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/06/19 02:43	1
1,2-Dichloroethane	0.057	J	0.32	0.040	ug/m3			11/06/19 02:43	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/06/19 02:43	1
1,3,5-Trimethylbenzene	ND		0.39	0.11	ug/m3			11/06/19 02:43	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/06/19 02:43	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/06/19 02:43	1
1,4-Dichlorobenzene	0.29	J	0.48	0.096	ug/m3			11/06/19 02:43	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/06/19 02:43	1
2,2,4-Trimethylpentane	0.36	J	0.93	0.037	ug/m3			11/06/19 02:43	1
2,3-Dimethylpentane	ND		0.33	0.11	ug/m3			11/06/19 02:43	1
2-Butanone (MEK)	1.5		0.94	0.22	ug/m3			11/06/19 02:43	1
2-Hexanone	0.12	J	0.82	0.066	ug/m3			11/06/19 02:43	1
2-Methylbutane	3.0		0.59	0.19	ug/m3			11/06/19 02:43	1
2-Methylpentane	0.55		0.28	0.049	ug/m3			11/06/19 02:43	1
4-Ethyltoluene	ND		0.79	0.10	ug/m3			11/06/19 02:43	1
4-Methyl-2-pentanone (MIBK)	0.97		0.82	0.22	ug/m3			11/06/19 02:43	1
Acetone	13		4.8	1.3	ug/m3			11/06/19 02:43	1
Benzene	0.56		0.26	0.026	ug/m3			11/06/19 02:43	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/06/19 02:43	1
Bromodichloromethane	0.17	J	0.54	0.12	ug/m3			11/06/19 02:43	1
Bromoform	ND		0.83	0.093	ug/m3			11/06/19 02:43	1
Bromomethane	0.088	J	0.31	0.085	ug/m3			11/06/19 02:43	1
Carbon disulfide	0.74		0.62	0.034	ug/m3			11/06/19 02:43	1
Carbon tetrachloride	0.47		0.20	0.044	ug/m3			11/06/19 02:43	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/06/19 02:43	1
Chloroethane	0.14	J	0.21	0.077	ug/m3			11/06/19 02:43	1
Chloroform	1.2		0.39	0.034	ug/m3			11/06/19 02:43	1
Chloromethane	2.5		0.41	0.14	ug/m3			11/06/19 02:43	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/06/19 02:43	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/06/19 02:43	1
Cyclohexane	0.23	J	0.69	0.079	ug/m3			11/06/19 02:43	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/06/19 02:43	1
Dichlorodifluoromethane	1.4		0.40	0.069	ug/m3			11/06/19 02:43	1
Ethylbenzene	0.23	J	0.35	0.056	ug/m3			11/06/19 02:43	1
Heptane	0.35	J	0.82	0.057	ug/m3			11/06/19 02:43	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/06/19 02:43	1
Hexane	0.55	J	0.70	0.046	ug/m3			11/06/19 02:43	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: JR - 1115 - IA - 4

Lab Sample ID: 140-17206-6

Date Collected: 10/31/19 16:13

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.39	0.17	ug/m3			11/06/19 02:43	1
Indene	ND		0.76	0.19	ug/m3			11/06/19 02:43	1
Isopropyl alcohol	3.8		2.0	0.54	ug/m3			11/06/19 02:43	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/06/19 02:43	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/06/19 02:43	1
Methylene Chloride	1.8	B-UB	1.4	0.56	ug/m3			11/06/19 02:43	1
m-Xylene & p-Xylene	0.79		0.35	0.13	ug/m3			11/06/19 02:43	1
Naphthalene	ND		1.0	0.40	ug/m3			11/06/19 02:43	1
n-Butane	7.7		0.38	0.20	ug/m3			11/06/19 02:43	1
n-Decane	2.7		2.3	0.22	ug/m3			11/06/19 02:43	1
n-Dodecane	2.0	J	2.8	0.45	ug/m3			11/06/19 02:43	1
n-Octane	0.27	J	0.75	0.075	ug/m3			11/06/19 02:43	1
Nonane	1.2		1.0	0.094	ug/m3			11/06/19 02:43	1
n-Undecane	1.2	J	2.6	0.31	ug/m3			11/06/19 02:43	1
o-Xylene	0.29	J	0.35	0.065	ug/m3			11/06/19 02:43	1
Pentane	1.6		1.2	0.23	ug/m3			11/06/19 02:43	1
Propene	2.3	CL J	1.7	1.7	ug/m3			11/06/19 02:43	1
Styrene	0.25	J	0.34	0.10	ug/m3			11/06/19 02:43	1
Tetrachloroethene	0.62		0.54	0.047	ug/m3			11/06/19 02:43	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/06/19 02:43	1
Thiophene	ND		0.28	0.038	ug/m3			11/06/19 02:43	1
Toluene	1.9		0.45	0.29	ug/m3			11/06/19 02:43	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/06/19 02:43	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/06/19 02:43	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/06/19 02:43	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/06/19 02:43	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/06/19 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		60 - 140		11/06/19 02:43	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.15	0.15	% v/v			11/07/19 13:23	1.53

Client Sample ID: AA - 103119

Lab Sample ID: 140-17206-7

Date Collected: 10/31/19 16:15

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/06/19 03:40	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/06/19 03:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.080	0.0080	ppb v/v			11/06/19 03:40	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/06/19 03:40	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/06/19 03:40	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/06/19 03:40	1
1,2,3-Trimethylbenzene	0.050	J	0.080	0.036	ppb v/v			11/06/19 03:40	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: AA - 103119

Lab Sample ID: 140-17206-7

Date Collected: 10/31/19 16:15

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/06/19 03:40	1
1,2,4-Trimethylbenzene	0.087		0.080	0.020	ppb v/v			11/06/19 03:40	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/06/19 03:40	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/06/19 03:40	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/06/19 03:40	1
1,2-Dichloroethane	0.013	J	0.080	0.010	ppb v/v			11/06/19 03:40	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/06/19 03:40	1
1,3,5-Trimethylbenzene	0.042	J	0.080	0.022	ppb v/v			11/06/19 03:40	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/06/19 03:40	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/06/19 03:40	1
1,4-Dichlorobenzene	0.028	J	0.080	0.016	ppb v/v			11/06/19 03:40	1
1,4-Dioxane	0.037	J	0.20	0.030	ppb v/v			11/06/19 03:40	1
2,2,4-Trimethylpentane	0.094	J	0.20	0.0080	ppb v/v			11/06/19 03:40	1
2,3-Dimethylpentane	0.026	J	0.080	0.026	ppb v/v			11/06/19 03:40	1
2-Butanone (MEK)	2.3		0.32	0.073	ppb v/v			11/06/19 03:40	1
2-Hexanone	0.28		0.20	0.016	ppb v/v			11/06/19 03:40	1
2-Methylbutane	0.71		0.20	0.063	ppb v/v			11/06/19 03:40	1
2-Methylpentane	0.14		0.080	0.014	ppb v/v			11/06/19 03:40	1
4-Ethyltoluene	ND		0.16	0.021	ppb v/v			11/06/19 03:40	1
4-Methyl-2-pentanone (MIBK)	ND		0.20	0.054	ppb v/v			11/06/19 03:40	1
Acetone	6.3	6+ J	2.0	0.57	ppb v/v			11/06/19 03:40	1
Benzene	0.15		0.080	0.0080	ppb v/v			11/06/19 03:40	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/06/19 03:40	1
Bromodichloromethane	ND		0.080	0.018	ppb v/v			11/06/19 03:40	1
Bromoform	ND	UJ	0.080	0.0090	ppb v/v			11/06/19 03:40	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/06/19 03:40	1
Carbon disulfide	0.36		0.20	0.011	ppb v/v			11/06/19 03:40	1
Carbon tetrachloride	0.079		0.032	0.0070	ppb v/v			11/06/19 03:40	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/06/19 03:40	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/06/19 03:40	1
Chloroform	0.045	J	0.080	0.0070	ppb v/v			11/06/19 03:40	1
Chloromethane	0.69		0.20	0.066	ppb v/v			11/06/19 03:40	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/06/19 03:40	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/06/19 03:40	1
Cyclohexane	0.075	J	0.20	0.023	ppb v/v			11/06/19 03:40	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/06/19 03:40	1
Dichlorodifluoromethane	0.30		0.080	0.014	ppb v/v			11/06/19 03:40	1
Ethylbenzene	0.050	J	0.080	0.013	ppb v/v			11/06/19 03:40	1
Heptane	0.084	J	0.20	0.014	ppb v/v			11/06/19 03:40	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/06/19 03:40	1
Hexane	0.16	J	0.20	0.013	ppb v/v			11/06/19 03:40	1
Indane	ND		0.080	0.035	ppb v/v			11/06/19 03:40	1
Indene	ND		0.16	0.039	ppb v/v			11/06/19 03:40	1
Isopropyl alcohol	0.94		0.80	0.22	ppb v/v			11/06/19 03:40	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/06/19 03:40	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/06/19 03:40	1
Methylene Chloride	0.54	B- UB	0.40	0.16	ppb v/v			11/06/19 03:40	1
m-Xylene & p-Xylene	0.17		0.080	0.029	ppb v/v			11/06/19 03:40	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: AA - 103119

Lab Sample ID: 140-17206-7

Date Collected: 10/31/19 16:15

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20	0.076	ppb v/v			11/06/19 03:40	1
n-Butane	1.8		0.16	0.083	ppb v/v			11/06/19 03:40	1
n-Decane	0.19	J	0.40	0.038	ppb v/v			11/06/19 03:40	1
n-Dodecane	0.14	J	0.40	0.064	ppb v/v			11/06/19 03:40	1
n-Octane	0.042	J	0.16	0.016	ppb v/v			11/06/19 03:40	1
Nonane	0.038	J	0.20	0.018	ppb v/v			11/06/19 03:40	1
n-Undecane	0.083	J	0.40	0.048	ppb v/v			11/06/19 03:40	1
o-Xylene	0.070	J	0.080	0.015	ppb v/v			11/06/19 03:40	1
Pentane	0.38	J	0.40	0.079	ppb v/v			11/06/19 03:40	1
Propene	ND		1.0	1.0	ppb v/v			11/06/19 03:40	1
Styrene	ND		0.080	0.024	ppb v/v			11/06/19 03:40	1
Tetrachloroethene	0.093		0.080	0.0070	ppb v/v			11/06/19 03:40	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/06/19 03:40	1
Thiophene	ND		0.080	0.011	ppb v/v			11/06/19 03:40	1
Toluene	0.43		0.12	0.078	ppb v/v			11/06/19 03:40	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/06/19 03:40	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/06/19 03:40	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/06/19 03:40	1
Trichlorofluoromethane	0.23		0.080	0.011	ppb v/v			11/06/19 03:40	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/06/19 03:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/06/19 03:40	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/06/19 03:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	0.61	0.061	ug/m3			11/06/19 03:40	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/06/19 03:40	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/06/19 03:40	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/06/19 03:40	1
1,2,3-Trimethylbenzene	0.24	J	0.39	0.18	ug/m3			11/06/19 03:40	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/06/19 03:40	1
1,2,4-Trimethylbenzene	0.43		0.39	0.098	ug/m3			11/06/19 03:40	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/06/19 03:40	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/06/19 03:40	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/06/19 03:40	1
1,2-Dichloroethane	0.053	J	0.32	0.040	ug/m3			11/06/19 03:40	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/06/19 03:40	1
1,3,5-Trimethylbenzene	0.21	J	0.39	0.11	ug/m3			11/06/19 03:40	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/06/19 03:40	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/06/19 03:40	1
1,4-Dichlorobenzene	0.17	J	0.48	0.096	ug/m3			11/06/19 03:40	1
1,4-Dioxane	0.13	J	0.72	0.11	ug/m3			11/06/19 03:40	1
2,2,4-Trimethylpentane	0.44	J	0.93	0.037	ug/m3			11/06/19 03:40	1
2,3-Dimethylpentane	0.11	J	0.33	0.11	ug/m3			11/06/19 03:40	1
2-Butanone (MEK)	6.8		0.94	0.22	ug/m3			11/06/19 03:40	1
2-Hexanone	1.1		0.82	0.066	ug/m3			11/06/19 03:40	1
2-Methylbutane	2.1		0.59	0.19	ug/m3			11/06/19 03:40	1
2-Methylpentane	0.49		0.28	0.049	ug/m3			11/06/19 03:40	1
4-Ethyltoluene	ND		0.79	0.10	ug/m3			11/06/19 03:40	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: AA - 103119

Lab Sample ID: 140-17206-7

Date Collected: 10/31/19 16:15

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		0.82	0.22	ug/m3			11/06/19 03:40	1
Acetone	15	et-J	4.8	1.3	ug/m3			11/06/19 03:40	1
Benzene	0.49		0.26	0.026	ug/m3			11/06/19 03:40	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/06/19 03:40	1
Bromodichloromethane	ND		0.54	0.12	ug/m3			11/06/19 03:40	1
Bromoform	ND	us	0.83	0.093	ug/m3			11/06/19 03:40	1
Bromomethane	ND		0.31	0.085	ug/m3			11/06/19 03:40	1
Carbon disulfide	1.1		0.62	0.034	ug/m3			11/06/19 03:40	1
Carbon tetrachloride	0.50		0.20	0.044	ug/m3			11/06/19 03:40	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/06/19 03:40	1
Chloroethane	ND		0.21	0.077	ug/m3			11/06/19 03:40	1
Chloroform	0.22	J	0.39	0.034	ug/m3			11/06/19 03:40	1
Chloromethane	1.4		0.41	0.14	ug/m3			11/06/19 03:40	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/06/19 03:40	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/06/19 03:40	1
Cyclohexane	0.26	J	0.69	0.079	ug/m3			11/06/19 03:40	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/06/19 03:40	1
Dichlorodifluoromethane	1.5		0.40	0.069	ug/m3			11/06/19 03:40	1
Ethylbenzene	0.22	J	0.35	0.056	ug/m3			11/06/19 03:40	1
Heptane	0.34	J	0.82	0.057	ug/m3			11/06/19 03:40	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/06/19 03:40	1
Hexane	0.55	J	0.70	0.046	ug/m3			11/06/19 03:40	1
Indane	ND		0.39	0.17	ug/m3			11/06/19 03:40	1
Indene	ND		0.76	0.19	ug/m3			11/06/19 03:40	1
Isopropyl alcohol	2.3		2.0	0.54	ug/m3			11/06/19 03:40	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/06/19 03:40	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/06/19 03:40	1
Methylene Chloride	1.9	B-UB	1.4	0.56	ug/m3			11/06/19 03:40	1
m-Xylene & p-Xylene	0.75		0.35	0.13	ug/m3			11/06/19 03:40	1
Naphthalene	ND		1.0	0.40	ug/m3			11/06/19 03:40	1
n-Butane	4.2		0.38	0.20	ug/m3			11/06/19 03:40	1
n-Decane	1.1	J	2.3	0.22	ug/m3			11/06/19 03:40	1
n-Dodecane	0.96	J	2.8	0.45	ug/m3			11/06/19 03:40	1
n-Octane	0.19	J	0.75	0.075	ug/m3			11/06/19 03:40	1
Nonane	0.20	J	1.0	0.094	ug/m3			11/06/19 03:40	1
n-Undecane	0.53	J	2.6	0.31	ug/m3			11/06/19 03:40	1
o-Xylene	0.31	J	0.35	0.065	ug/m3			11/06/19 03:40	1
Pentane	1.1	J	1.2	0.23	ug/m3			11/06/19 03:40	1
Propene	ND		1.7	1.7	ug/m3			11/06/19 03:40	1
Styrene	ND		0.34	0.10	ug/m3			11/06/19 03:40	1
Tetrachloroethene	0.63		0.54	0.047	ug/m3			11/06/19 03:40	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/06/19 03:40	1
Thiophene	ND		0.28	0.038	ug/m3			11/06/19 03:40	1
Toluene	1.6		0.45	0.29	ug/m3			11/06/19 03:40	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/06/19 03:40	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/06/19 03:40	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/06/19 03:40	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/06/19 03:40	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: AA - 103119

Lab Sample ID: 140-17206-7

Date Collected: 10/31/19 16:15

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.10	0.066	ug/m3			11/06/19 03:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140					11/06/19 03:40	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.17	0.17	% v/v			11/07/19 13:40	1.65

Client Sample ID: DUP - 103119

Lab Sample ID: 140-17206-8

Date Collected: 10/31/19 00:00

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/06/19 04:37	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/06/19 04:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.080	0.0080	ppb v/v			11/06/19 04:37	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/06/19 04:37	1
1,1-Dichloroethane	0.0097	J	0.080	0.0070	ppb v/v			11/06/19 04:37	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/06/19 04:37	1
1,2,3-Trimethylbenzene	0.068	J	0.080	0.036	ppb v/v			11/06/19 04:37	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/06/19 04:37	1
1,2,4-Trimethylbenzene	0.21		0.080	0.020	ppb v/v			11/06/19 04:37	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/06/19 04:37	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.018	J	0.080	0.012	ppb v/v			11/06/19 04:37	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/06/19 04:37	1
1,2-Dichloroethane	0.041	J	0.080	0.010	ppb v/v			11/06/19 04:37	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/06/19 04:37	1
1,3,5-Trimethylbenzene	0.044	J	0.080	0.022	ppb v/v			11/06/19 04:37	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/06/19 04:37	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/06/19 04:37	1
1,4-Dichlorobenzene	0.048	J	0.080	0.016	ppb v/v			11/06/19 04:37	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/06/19 04:37	1
2,2,4-Trimethylpentane	0.26		0.20	0.0080	ppb v/v			11/06/19 04:37	1
2,3-Dimethylpentane	0.12		0.080	0.026	ppb v/v			11/06/19 04:37	1
2-Butanone (MEK)	0.85		0.32	0.073	ppb v/v			11/06/19 04:37	1
2-Hexanone	0.029	J	0.20	0.016	ppb v/v			11/06/19 04:37	1
2-Methylbutane	6.7	J	0.20	0.063	ppb v/v			11/06/19 04:37	1
2-Methylpentane	0.88	J	0.080	0.014	ppb v/v			11/06/19 04:37	1
4-Ethyltoluene	0.11	J	0.16	0.021	ppb v/v			11/06/19 04:37	1
4-Methyl-2-pentanone (MIBK)	0.11	J	0.20	0.054	ppb v/v			11/06/19 04:37	1
Acetone	16	ETJ	2.0	0.57	ppb v/v			11/06/19 04:37	1
Benzene	0.92	J	0.080	0.0080	ppb v/v			11/06/19 04:37	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/06/19 04:37	1
Bromodichloromethane	0.067	J	0.080	0.018	ppb v/v			11/06/19 04:37	1
Bromoform	ND	UJ	0.080	0.0090	ppb v/v			11/06/19 04:37	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: DUP - 103119

Lab Sample ID: 140-17206-8

Date Collected: 10/31/19 00:00

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.051	J	0.080	0.022	ppb v/v			11/06/19 04:37	1
Carbon disulfide	0.052	J	0.20	0.011	ppb v/v			11/06/19 04:37	1
Carbon tetrachloride	0.11		0.032	0.0070	ppb v/v			11/06/19 04:37	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/06/19 04:37	1
Chloroethane	0.39		0.080	0.029	ppb v/v			11/06/19 04:37	1
Chloroform	0.60		0.080	0.0070	ppb v/v			11/06/19 04:37	1
Chloromethane	1.3	CL	0.20	0.066	ppb v/v			11/06/19 04:37	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/06/19 04:37	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/06/19 04:37	1
Cyclohexane	0.34		0.20	0.023	ppb v/v			11/06/19 04:37	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/06/19 04:37	1
Dichlorodifluoromethane	0.29		0.080	0.014	ppb v/v			11/06/19 04:37	1
Ethylbenzene	0.16		0.080	0.013	ppb v/v			11/06/19 04:37	1
Heptane	0.30		0.20	0.014	ppb v/v			11/06/19 04:37	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/06/19 04:37	1
Hexane	1.2	J	0.20	0.013	ppb v/v			11/06/19 04:37	1
Indane	ND		0.080	0.035	ppb v/v			11/06/19 04:37	1
Indene	ND		0.16	0.039	ppb v/v			11/06/19 04:37	1
Isopropyl alcohol	1.2		0.80	0.22	ppb v/v			11/06/19 04:37	1
Isopropylbenzene	0.025	J	0.16	0.017	ppb v/v			11/06/19 04:37	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/06/19 04:37	1
Methylene Chloride	5.2	B	0.40	0.16	ppb v/v			11/06/19 04:37	1
m-Xylene & p-Xylene	0.87	J	0.080	0.029	ppb v/v			11/06/19 04:37	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/06/19 04:37	1
n-Butane	12	J	0.16	0.083	ppb v/v			11/06/19 04:37	1
n-Decane	0.18	J	0.40	0.038	ppb v/v			11/06/19 04:37	1
n-Dodecane	ND		0.40	0.064	ppb v/v			11/06/19 04:37	1
n-Octane	0.14	J	0.16	0.016	ppb v/v			11/06/19 04:37	1
Nonane	0.075	J	0.20	0.018	ppb v/v			11/06/19 04:37	1
n-Undecane	0.072	J	0.40	0.048	ppb v/v			11/06/19 04:37	1
o-Xylene	0.28		0.080	0.015	ppb v/v			11/06/19 04:37	1
Pentane	4.9	J	0.40	0.079	ppb v/v			11/06/19 04:37	1
Propene	4.3	et	1.0	1.0	ppb v/v			11/06/19 04:37	1
Styrene	0.041	J	0.080	0.024	ppb v/v			11/06/19 04:37	1
Tetrachloroethene	0.087		0.080	0.0070	ppb v/v			11/06/19 04:37	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/06/19 04:37	1
Thiophene	ND		0.080	0.011	ppb v/v			11/06/19 04:37	1
Toluene	3.0	J	0.12	0.078	ppb v/v			11/06/19 04:37	1
trans-1,2-Dichloroethene	0.011	J	0.080	0.0070	ppb v/v			11/06/19 04:37	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/06/19 04:37	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/06/19 04:37	1
Trichlorofluoromethane	0.28		0.080	0.011	ppb v/v			11/06/19 04:37	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/06/19 04:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/06/19 04:37	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/06/19 04:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	0.61	0.061	ug/m3			11/06/19 04:37	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: DUP - 103119

Lab Sample ID: 140-17206-8

Date Collected: 10/31/19 00:00

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/06/19 04:37	1
1,1-Dichloroethane	0.039	J	0.32	0.028	ug/m3			11/06/19 04:37	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/06/19 04:37	1
1,2,3-Trimethylbenzene	0.33	J	0.39	0.18	ug/m3			11/06/19 04:37	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/06/19 04:37	1
1,2,4-Trimethylbenzene	1.0		0.39	0.098	ug/m3			11/06/19 04:37	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/06/19 04:37	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.13	J	0.56	0.084	ug/m3			11/06/19 04:37	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/06/19 04:37	1
1,2-Dichloroethane	0.17	J	0.32	0.040	ug/m3			11/06/19 04:37	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/06/19 04:37	1
1,3,5-Trimethylbenzene	0.22	J	0.39	0.11	ug/m3			11/06/19 04:37	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/06/19 04:37	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/06/19 04:37	1
1,4-Dichlorobenzene	0.29	J	0.48	0.096	ug/m3			11/06/19 04:37	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/06/19 04:37	1
2,2,4-Trimethylpentane	1.2		0.93	0.037	ug/m3			11/06/19 04:37	1
2,3-Dimethylpentane	0.47		0.33	0.11	ug/m3			11/06/19 04:37	1
2-Butanone (MEK)	2.5		0.94	0.22	ug/m3			11/06/19 04:37	1
2-Hexanone	0.12	J	0.82	0.066	ug/m3			11/06/19 04:37	1
2-Methylbutane	20	J	0.59	0.19	ug/m3			11/06/19 04:37	1
2-Methylpentane	3.1	J	0.28	0.049	ug/m3			11/06/19 04:37	1
4-Ethyltoluene	0.56	J	0.79	0.10	ug/m3			11/06/19 04:37	1
4-Methyl-2-pentanone (MIBK)	0.45	J	0.82	0.22	ug/m3			11/06/19 04:37	1
Acetone	38	et J	4.8	1.3	ug/m3			11/06/19 04:37	1
Benzene	2.9	J	0.26	0.026	ug/m3			11/06/19 04:37	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/06/19 04:37	1
Bromodichloromethane	0.45	J	0.54	0.12	ug/m3			11/06/19 04:37	1
Bromoform	ND	us	0.83	0.093	ug/m3			11/06/19 04:37	1
Bromomethane	0.20	J	0.31	0.085	ug/m3			11/06/19 04:37	1
Carbon disulfide	0.16	J	0.62	0.034	ug/m3			11/06/19 04:37	1
Carbon tetrachloride	0.66		0.20	0.044	ug/m3			11/06/19 04:37	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/06/19 04:37	1
Chloroethane	1.0		0.21	0.077	ug/m3			11/06/19 04:37	1
Chloroform	2.9		0.39	0.034	ug/m3			11/06/19 04:37	1
Chloromethane	2.6	et J	0.41	0.14	ug/m3			11/06/19 04:37	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/06/19 04:37	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/06/19 04:37	1
Cyclohexane	1.2		0.69	0.079	ug/m3			11/06/19 04:37	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/06/19 04:37	1
Dichlorodifluoromethane	1.4		0.40	0.069	ug/m3			11/06/19 04:37	1
Ethylbenzene	0.70		0.35	0.056	ug/m3			11/06/19 04:37	1
Heptane	1.2		0.82	0.057	ug/m3			11/06/19 04:37	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/06/19 04:37	1
Hexane	4.2	J	0.70	0.046	ug/m3			11/06/19 04:37	1
Indane	ND		0.39	0.17	ug/m3			11/06/19 04:37	1
Indene	ND		0.76	0.19	ug/m3			11/06/19 04:37	1
Isopropyl alcohol	3.0		2.0	0.54	ug/m3			11/06/19 04:37	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17206-1

Client Sample ID: DUP - 103119

Lab Sample ID: 140-17206-8

Date Collected: 10/31/19 00:00

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.13	J	0.79	0.084	ug/m3			11/06/19 04:37	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/06/19 04:37	1
Methylene Chloride	18	B-J	1.4	0.56	ug/m3			11/06/19 04:37	1
m-Xylene & p-Xylene	3.8	J	0.35	0.13	ug/m3			11/06/19 04:37	1
Naphthalene	ND		1.0	0.40	ug/m3			11/06/19 04:37	1
n-Butane	29	J	0.38	0.20	ug/m3			11/06/19 04:37	1
n-Decane	1.1	J	2.3	0.22	ug/m3			11/06/19 04:37	1
n-Dodecane	ND		2.8	0.45	ug/m3			11/06/19 04:37	1
n-Octane	0.68	J	0.75	0.075	ug/m3			11/06/19 04:37	1
Nonane	0.40	J	1.0	0.094	ug/m3			11/06/19 04:37	1
n-Undecane	0.46	J	2.6	0.31	ug/m3			11/06/19 04:37	1
o-Xylene	1.2		0.35	0.065	ug/m3			11/06/19 04:37	1
Pentane	14	J	1.2	0.23	ug/m3			11/06/19 04:37	1
Propene	7.5	er-J	1.7	1.7	ug/m3			11/06/19 04:37	1
Styrene	0.17	J	0.34	0.10	ug/m3			11/06/19 04:37	1
Tetrachloroethene	0.59		0.54	0.047	ug/m3			11/06/19 04:37	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/06/19 04:37	1
Thiophene	ND		0.28	0.038	ug/m3			11/06/19 04:37	1
Toluene	11	J	0.45	0.29	ug/m3			11/06/19 04:37	1
trans-1,2-Dichloroethene	0.045	J	0.32	0.028	ug/m3			11/06/19 04:37	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/06/19 04:37	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/06/19 04:37	1
Trichlorofluoromethane	1.6		0.45	0.062	ug/m3			11/06/19 04:37	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/06/19 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140		11/06/19 04:37	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.14	0.14	% v/v			11/07/19 13:57	1.38

Eurofins TestAmerica, New York City Ser
47-32 32nd Place
Suite 1141
Long Island City, NY 11101-2425
phone 347.507.0579 fax

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.



140-17206 Chain of Custody

Client Contact Information				Client Project Manager: Bruce W. Ahrens				Samples Collected By: Rob Arnold / Albina Redzepagic										COC No:							
Company Name: Arcadis U.S., Inc				Phone: (585) 662 4034														of COCs							
Address: 295 Woodcliff Drive				Email: bruce.ahrens@arcadis.com														TALS Project #:							
City/State/Zip: Fairport/ NY/ 14450																		For Lab Use Only:							
Phone: (585) 662 4034																		Walk-in Client:							
FAX: (585) 385 4198																		Lab Sampling:							
Project Name: Con Edison - East 11th Street																		Job / SDG No.:							
Site/Location: E. 11th Street - Jacob Rills																		(See below for Add'l Items)							
P O # 30005328																									
Sample Identification		Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15/16 (Standard / Low Level)		EPA 30	EPA 25C	ASTM D-1946	EPA 16/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:	
JR-170-TA-1		10/31/19	0840	1031/19	1637	-29	-8	881583	10515	X							X		X						
JR-170-TA-2			0804		1614	-29	-403	11468	11041	X							X		X						
JR-1115-TA-1			0817		1631	-29	-5	11582	11559	X							X		X						
JR-1115-TA-2			0804		1614	-29	-3	11990	11028	X							X		X						
JR-1115-TA-3			0743		1630	-30	-2	09654	10562	X							X		X						
JR-1115-TA-4			0250		1613	-30	-4	11497	10402	X							X		X						
AA-1031M			0818		1615	-30	-6	09906	11681	X							X		X						
DUP-1031M			X		X	-29	-8	8862	09508	X							X		X						
Special Instructions/QC Requirements & Comments:																									
Plus Helium and Target Analyte List (attached)																									
Samples Shipped by: <i>[Signature]</i> Date / Time: 11/1/19 9:08																									
Samples Relinquished by: <i>[Signature]</i> Date / Time: 11/01/19 15:30																									
Relinquished by: <i>[Signature]</i> Date / Time: 11/01/19 15:30																									
Lab Use Only: <i>[Signature]</i> Shipper Name: <i>[Signature]</i> Condition: 8 calh, 8 flah, 8cc																									

Consolidated Edison Company of New York, Inc. – East 11th Street Site

DATA USABILITY SUMMARY REPORT

New York City, New York

Volatile Organic Compound (VOC) TO-15 Analysis

SDG #140-17207-1

Analyses Performed By:
Eurofins-TestAmerica Knoxville
Knoxville, Tennessee

Report #34802R
Review Level: Tier III
Project: 30005328.00002



DATA USABILITY SUMMARY REPORT

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 140-17207-1 for samples collected in association with the with the Con Edison East 11th Street site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis					
						VOC	SVOC	PCB	EPH	ME T	MISC
140-17207-1	JR - 1223 - IA - 1-20191101	140-17207-1	Air	11/1/2019		X					
	JR - 1223 - IA - 2-20191101	140-17207-2	Air	11/1/2019		X					
	JR - 1223 - IA - 3-20191101	140-17207-3	Air	11/1/2019		X					
	JR - 1223 - IA - 4-20191101	140-17207-4	Air	11/1/2019		X					
	AA 110119-20191101	140-17207-5	Air	11/1/2019		X					
	DUP - 110119-20191101	140-17207-6	Air	11/1/2019	JR - 1223 - IA - 4-20191101	X					

DATA USABILITY SUMMARY REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of Quality Assurance or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

DATA USABILITY SUMMARY REPORT

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15 and American Society for Testing and Materials (ASTM) Method D-1946. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II SOP HW-31-Validating Air Samples Volatile Organic Analysis of Ambient Air In Canister by Method TO-15 of October 2006, New York State DEC Analytical Method ASP 2005 TO-15 (QA/QC Criteria R9 TO-15), NYSDEC Modifications to R9 TO-15 QA/QC Criteria October 2009.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

DATA USABILITY SUMMARY REPORT

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA USABILITY SUMMARY REPORT

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation	Return Canister Pressure
USEPA TO-15 and ASTM D-1946	Air	30 days from collection to analysis	Ambient Temperature	< -1" Hg

All samples were analyzed within the specified holding time and canister return pressure / vacuum criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
JR - 1223 - IA - 1-20191101 JR - 1223 - IA - 2-20191101 JR - 1223 - IA - 3-20191101 AA 110119-20191101 DUP - 110119-20191101	Methylene Chloride	Detected sample results >RL and <BAL	"UB" at detected sample concentration

Note:

RL Reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

DATA USABILITY SUMMARY REPORT

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
All sample locations within this SDG	ICAL %RSD	Acetone	32.8%
	CCV %D	Bromoform	-31.4%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 30% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J

DATA USABILITY SUMMARY REPORT

Initial/Continuing	Criteria	Sample Result	Qualification
Continuing Calibration	%D >30% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >30% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit a percent recovery within the established acceptance limits of 70% to 130%.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the established acceptance limits of 70% to 130% (60% to 140% for poor responding compounds).

Sample locations associated with LCS analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery
All sample locations within this SDG	Bromoform	<LL but >10%

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of an LCS deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL) 130%	Non-detect	No Action
	Detect	J

DATA USABILITY SUMMARY REPORT

Control Limit	Sample Result	Qualification
< the lower control limit (LL) 70% but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 50% for air matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

Results for duplicate samples are summarized in the following table (ug/m3).

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
JR - 1223 - IA - 4-20191101/ DUP - 110119-20191101	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.53 J	0.56 J	AC
	1,2,4-TRIMETHYLBENZENE	0.39 U	0.12 J	AC
	1,2-DICHLOROETHANE	0.06 J	0.06 J	AC
	1,2-DICHLOROTETRAFLUOROETHANE	0.13 J	0.12 J	AC
	1,4-DIOXANE (P-DIOXANE)	0.2 J	0.72 U	AC
	2,2,4-TRIMETHYLPENTANE	0.37 J	0.15 J	AC
	2,3-DIMETHYL PENTANE	0.17 J	0.33 U	AC
	2-HEXANONE	0.073 J	0.15 J	AC
	2-METHYL BUTANE	8.5	0.98	NC
	2-METHYL-PENTANE	1.2	0.27 J	NC
	ACETONE	7.4	13	AC
	BENZENE	0.5	0.37	AC
	CARBON DISULFIDE	0.041 J	0.62 U	AC
	CARBON TETRACHLORIDE	0.44	0.5	AC
	CHLOROFORM	0.38 J	0.42	AC
	CHLOROMETHANE	1.5	1.3	AC
	CYCLOHEXANE	0.3 J	0.14 J	AC
	DICHLORODIFLUOROMETHANE	1.5	1.3	AC
	ETHYLBENZENE	0.15 J	0.11 J	AC

DATA USABILITY SUMMARY REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	ISOPROPANOL	12	14	15.3%
	M,P-XYLENES	0.44	0.32 J	AC
	METHYL ETHYL KETONE (2-BUTANONE)	0.84 J	1.1	AC
	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.25 J	0.82 U	AC
	METHYLENE CHLORIDE	11	2 U	NC
	N-HEPTANE	0.37 J	0.23 J	AC
	N-HEXANE	2	0.38 J	AC
	O-XYLENE (1,2-DIMETHYLBENZENE)	0.15 J	0.13 J	AC
	PROPYLENE	1.8	1.7 U	AC
	TETRACHLOROETHYLENE(PCE)	0.48 J	0.63	AC
	TOLUENE	2	0.72	AC
	TRANS-1,2-DICHLOROETHENE	0.028 J	0.32 U	AC
	TRICHLOROFLUOROMETHANE	1.5	1.3	AC
	n-BUTANE	20	3.8	136.1%
	PENTANE	5.6	0.64 J	NC
	n-OCTANE	0.14 J	0.13 J	AC
	NONANE	1.0 U	0.13 J	AC
	n-DECANE	2.3 U	0.39 J	AC
	n-DODECANE	2.5 J	2.8 U	AC

Notes:

AC = Acceptable

NC = Not Compliant

The compounds 2-Methylbutane, 2-Methylpentane, n-Butane, Pentane and Methylene Chloride associated with sample locations JR - 1223 - IA - 4-20191101 and DUP - 110119-20191101 exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed analyte were qualified as estimated.

9. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

DATA USABILITY SUMMARY REPORT

10. System Performance and Overall Assessment

Note: The "CI" qualifier was removed and replaced with a "J" qualifier to indicate that the detected compound results for the associated samples mentioned above are estimated (potential high bias).

- The laboratory qualified the detected Acetone results for sample locations JR - 1223 - IA - 2-20191101, JR - 1223 - IA - 3-20191101 and DUP - 110119-20191101 with a "CI" qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.
- The laboratory qualified the detected Chloromethane results for sample locations JR - 1223 - IA - 1-20191101, JR - 1223 - IA - 2-20191101, JR - 1223 - IA - 3-20191101 and JR - 1223 - IA - 4-20191101 with a "CI" qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.
- The laboratory qualified the detected Propene results for sample locations JR - 1223 - IA - 1-20191101, JR - 1223 - IA - 2-20191101, JR - 1223 - IA - 3-20191101 and JR - 1223 - IA - 4-20191101 with a "CI" qualifier to indicate the peak identified by the data system exhibited chromatographic interference that could not be resolved. There is reason to suspect there may be a high bias.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA USABILITY SUMMARY REPORT

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: TO-15 and ASTM D-1946	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Canister return pressure (<-1"Hg)		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X	X			
B. Equipment blanks					X	
C. Trip blanks					X	
Laboratory Control Sample (LCS)		X	X			
Laboratory Control Sample Duplicate(LCSD)					X	
LCS/LCSD Precision (RPD)					X	
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate(MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)		X	X			
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X	X			
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		

DATA USABILITY SUMMARY REPORT

VOCs: TO-15 and ASTM D-1946	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

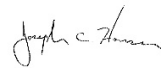
Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	DRO/ GRO	Diss Gases	MET	MISC	
140-17207-1	11/1/2019	USEPA TO-15	JR - 1223 - IA - 1-20191101	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks
	11/1/2019	USEPA TO-15	JR - 1223 - IA - 2-20191101	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks
	11/1/2019	USEPA TO-15	JR - 1223 - IA - 3-20191101	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks
	11/1/2019	USEPA TO-15	JR - 1223 - IA - 4-20191101	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Field Duplicate RPD
	11/1/2019	USEPA TO-15	AA 110119-20191101	Air	No	--	--	--	--	VOC: LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks
	11/1/2019	USEPA TO-15	DUP - 110119-20191101	Air	No	--	--	--	--	VOC: Compound Identification, LCS %Rec, ICAL %RSD, CCAL %D, Associated Blanks, Field Duplicate RPD

Note:

Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:



DATE: January 28, 2020

PEER REVIEW: Dennis Capria

DATE: January 29, 2020



**CHAIN OF CUSTODY
CORRECTED SAMPLE ANALYSIS DATA
SHEETS**



Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 1

Lab Sample ID: 140-17207-1

Date Collected: 11/01/19 14:59

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 16:10	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 16:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.080	0.0080	ppb v/v			11/05/19 16:10	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 16:10	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 16:10	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 16:10	1
1,2,3-Trimethylbenzene	0.051	J	0.080	0.036	ppb v/v			11/05/19 16:10	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 16:10	1
1,2,4-Trimethylbenzene	0.084		0.080	0.020	ppb v/v			11/05/19 16:10	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 16:10	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/05/19 16:10	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 16:10	1
1,2-Dichloroethane	0.029	J	0.080	0.010	ppb v/v			11/05/19 16:10	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 16:10	1
1,3,5-Trimethylbenzene	0.026	J	0.080	0.022	ppb v/v			11/05/19 16:10	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 16:10	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 16:10	1
1,4-Dichlorobenzene	0.045	J	0.080	0.016	ppb v/v			11/05/19 16:10	1
1,4-Dioxane	0.082	J	0.20	0.030	ppb v/v			11/05/19 16:10	1
2,2,4-Trimethylpentane	0.047	J	0.20	0.0080	ppb v/v			11/05/19 16:10	1
2,3-Dimethylpentane	0.030	J	0.080	0.026	ppb v/v			11/05/19 16:10	1
2-Butanone (MEK)	0.30	J	0.32	0.073	ppb v/v			11/05/19 16:10	1
2-Hexanone	0.021	J	0.20	0.016	ppb v/v			11/05/19 16:10	1
2-Methylbutane	2.4		0.20	0.063	ppb v/v			11/05/19 16:10	1
2-Methylpentane	0.11		0.080	0.014	ppb v/v			11/05/19 16:10	1
4-Ethyltoluene	0.047	J	0.16	0.021	ppb v/v			11/05/19 16:10	1
4-Methyl-2-pentanone (MIBK)	0.089	J	0.20	0.054	ppb v/v			11/05/19 16:10	1
Acetone	4.6	J	2.0	0.57	ppb v/v			11/05/19 16:10	1
Benzene	0.16		0.080	0.0080	ppb v/v			11/05/19 16:10	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 16:10	1
Bromodichloromethane	0.31		0.080	0.018	ppb v/v			11/05/19 16:10	1
Bromoform	ND	us	0.080	0.0090	ppb v/v			11/05/19 16:10	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/05/19 16:10	1
Carbon disulfide	0.070	J	0.20	0.011	ppb v/v			11/05/19 16:10	1
Carbon tetrachloride	0.076		0.032	0.0070	ppb v/v			11/05/19 16:10	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 16:10	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 16:10	1
Chloroform	2.7		0.080	0.0070	ppb v/v			11/05/19 16:10	1
Chloromethane	0.76	cr	0.20	0.066	ppb v/v			11/05/19 16:10	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/05/19 16:10	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 16:10	1
Cyclohexane	0.18	J	0.20	0.023	ppb v/v			11/05/19 16:10	1
Dibromochloromethane	0.033	J	0.080	0.0070	ppb v/v			11/05/19 16:10	1
Dichlorodifluoromethane	0.23		0.080	0.014	ppb v/v			11/05/19 16:10	1
Ethylbenzene	0.080		0.080	0.013	ppb v/v			11/05/19 16:10	1
Heptane	0.11	J	0.20	0.014	ppb v/v			11/05/19 16:10	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 16:10	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 1

Lab Sample ID: 140-17207-1

Date Collected: 11/01/19 14:59

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.22		0.20	0.013	ppb v/v			11/05/19 16:10	1
Indane	ND		0.080	0.035	ppb v/v			11/05/19 16:10	1
Indene	ND		0.16	0.039	ppb v/v			11/05/19 16:10	1
Isopropyl alcohol	2.3		0.80	0.22	ppb v/v			11/05/19 16:10	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/05/19 16:10	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 16:10	1
Methylene Chloride	0.96		0.40	0.16	ppb v/v			11/05/19 16:10	1
m-Xylene & p-Xylene	0.32		0.080	0.029	ppb v/v			11/05/19 16:10	1
Naphthalene	0.091	J	0.20	0.076	ppb v/v			11/05/19 16:10	1
n-Butane	11		0.16	0.083	ppb v/v			11/05/19 16:10	1
n-Decane	0.21	J	0.40	0.038	ppb v/v			11/05/19 16:10	1
n-Dodecane	1.6		0.40	0.064	ppb v/v			11/05/19 16:10	1
n-Octane	0.063	J	0.16	0.016	ppb v/v			11/05/19 16:10	1
Nonane	0.054	J	0.20	0.018	ppb v/v			11/05/19 16:10	1
n-Undecane	0.11	J	0.40	0.048	ppb v/v			11/05/19 16:10	1
o-Xylene	0.15		0.080	0.015	ppb v/v			11/05/19 16:10	1
Pentane	16		0.40	0.079	ppb v/v			11/05/19 16:10	1
Propene	1.2		1.0	1.0	ppb v/v			11/05/19 16:10	1
Styrene	0.037	J	0.080	0.024	ppb v/v			11/05/19 16:10	1
Tetrachloroethene	0.082		0.080	0.0070	ppb v/v			11/05/19 16:10	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 16:10	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 16:10	1
Toluene	4.3		0.12	0.078	ppb v/v			11/05/19 16:10	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/05/19 16:10	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 16:10	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/05/19 16:10	1
Trichlorofluoromethane	0.22		0.080	0.011	ppb v/v			11/05/19 16:10	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/05/19 16:10	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 16:10	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 16:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	0.61	0.061	ug/m3			11/05/19 16:10	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 16:10	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/05/19 16:10	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 16:10	1
1,2,3-Trimethylbenzene	0.25	J	0.39	0.18	ug/m3			11/05/19 16:10	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 16:10	1
1,2,4-Trimethylbenzene	0.42		0.39	0.098	ug/m3			11/05/19 16:10	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 16:10	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/05/19 16:10	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 16:10	1
1,2-Dichloroethane	0.12	J	0.32	0.040	ug/m3			11/05/19 16:10	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 16:10	1
1,3,5-Trimethylbenzene	0.13	J	0.39	0.11	ug/m3			11/05/19 16:10	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 16:10	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 16:10	1
1,4-Dichlorobenzene	0.27	J	0.48	0.096	ug/m3			11/05/19 16:10	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 1

Lab Sample ID: 140-17207-1

Date Collected: 11/01/19 14:59

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.30	J	0.72	0.11	ug/m3			11/05/19 16:10	1
2,2,4-Trimethylpentane	0.22	J	0.93	0.037	ug/m3			11/05/19 16:10	1
2,3-Dimethylpentane	0.12	J	0.33	0.11	ug/m3			11/05/19 16:10	1
2-Butanone (MEK)	0.87	J	0.94	0.22	ug/m3			11/05/19 16:10	1
2-Hexanone	0.088	J	0.82	0.066	ug/m3			11/05/19 16:10	1
2-Methylbutane	7.1		0.59	0.19	ug/m3			11/05/19 16:10	1
2-Methylpentane	0.38		0.28	0.049	ug/m3			11/05/19 16:10	1
4-Ethyltoluene	0.23	J	0.79	0.10	ug/m3			11/05/19 16:10	1
4-Methyl-2-pentanone (MIBK)	0.37	J	0.82	0.22	ug/m3			11/05/19 16:10	1
Acetone	11	J	4.8	1.3	ug/m3			11/05/19 16:10	1
Benzene	0.50		0.26	0.026	ug/m3			11/05/19 16:10	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 16:10	1
Bromodichloromethane	2.1		0.54	0.12	ug/m3			11/05/19 16:10	1
Bromoform	ND	UJ	0.83	0.093	ug/m3			11/05/19 16:10	1
Bromomethane	ND		0.31	0.085	ug/m3			11/05/19 16:10	1
Carbon disulfide	0.22	J	0.62	0.034	ug/m3			11/05/19 16:10	1
Carbon tetrachloride	0.48		0.20	0.044	ug/m3			11/05/19 16:10	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 16:10	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 16:10	1
Chloroform	13		0.39	0.034	ug/m3			11/05/19 16:10	1
Chloromethane	1.6	et J	0.41	0.14	ug/m3			11/05/19 16:10	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/05/19 16:10	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 16:10	1
Cyclohexane	0.62	J	0.69	0.079	ug/m3			11/05/19 16:10	1
Dibromochloromethane	0.28	J	0.68	0.060	ug/m3			11/05/19 16:10	1
Dichlorodifluoromethane	1.2		0.40	0.069	ug/m3			11/05/19 16:10	1
Ethylbenzene	0.35		0.35	0.056	ug/m3			11/05/19 16:10	1
Heptane	0.44	J	0.82	0.057	ug/m3			11/05/19 16:10	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 16:10	1
Hexane	0.76		0.70	0.046	ug/m3			11/05/19 16:10	1
Indane	ND		0.39	0.17	ug/m3			11/05/19 16:10	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 16:10	1
Isopropyl alcohol	5.7		2.0	0.54	ug/m3			11/05/19 16:10	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/05/19 16:10	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 16:10	1
Methylene Chloride	3.3	B-UB	1.4	0.56	ug/m3			11/05/19 16:10	1
m-Xylene & p-Xylene	1.4		0.35	0.13	ug/m3			11/05/19 16:10	1
Naphthalene	0.48	J	1.0	0.40	ug/m3			11/05/19 16:10	1
n-Butane	26		0.38	0.20	ug/m3			11/05/19 16:10	1
n-Decane	1.2	J	2.3	0.22	ug/m3			11/05/19 16:10	1
n-Dodecane	11		2.8	0.45	ug/m3			11/05/19 16:10	1
n-Octane	0.29	J	0.75	0.075	ug/m3			11/05/19 16:10	1
Nonane	0.28	J	1.0	0.094	ug/m3			11/05/19 16:10	1
n-Undecane	0.68	J	2.6	0.31	ug/m3			11/05/19 16:10	1
o-Xylene	0.65		0.35	0.065	ug/m3			11/05/19 16:10	1
Pentane	47		1.2	0.23	ug/m3			11/05/19 16:10	1
Propene	2.1	et J	1.7	1.7	ug/m3			11/05/19 16:10	1
Styrene	0.16	J	0.34	0.10	ug/m3			11/05/19 16:10	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 1

Lab Sample ID: 140-17207-1

Date Collected: 11/01/19 14:59

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.55		0.54	0.047	ug/m3			11/05/19 16:10	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 16:10	1
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 16:10	1
Toluene	16		0.45	0.29	ug/m3			11/05/19 16:10	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/05/19 16:10	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 16:10	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/05/19 16:10	1
Trichlorofluoromethane	1.2		0.45	0.062	ug/m3			11/05/19 16:10	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/05/19 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140		11/05/19 16:10	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.16	0.16	% v/v			11/08/19 10:37	1.61

Client Sample ID: JR - 1223 - IA - 2

Lab Sample ID: 140-17207-2

Date Collected: 11/01/19 14:55

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 17:07	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 17:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.072	J	0.080	0.0080	ppb v/v			11/05/19 17:07	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 17:07	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 17:07	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 17:07	1
1,2,3-Trimethylbenzene	ND		0.080	0.036	ppb v/v			11/05/19 17:07	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 17:07	1
1,2,4-Trimethylbenzene	0.046	J	0.080	0.020	ppb v/v			11/05/19 17:07	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 17:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.018	J	0.080	0.012	ppb v/v			11/05/19 17:07	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 17:07	1
1,2-Dichloroethane	0.017	J	0.080	0.010	ppb v/v			11/05/19 17:07	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 17:07	1
1,3,5-Trimethylbenzene	ND		0.080	0.022	ppb v/v			11/05/19 17:07	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 17:07	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 17:07	1
1,4-Dichlorobenzene	0.040	J	0.080	0.016	ppb v/v			11/05/19 17:07	1
1,4-Dioxane	0.051	J	0.20	0.030	ppb v/v			11/05/19 17:07	1
2,2,4-Trimethylpentane	0.034	J	0.20	0.0080	ppb v/v			11/05/19 17:07	1
2,3-Dimethylpentane	ND		0.080	0.026	ppb v/v			11/05/19 17:07	1
2-Butanone (MEK)	0.25	J	0.32	0.073	ppb v/v			11/05/19 17:07	1
2-Hexanone	0.024	J	0.20	0.016	ppb v/v			11/05/19 17:07	1
2-Methylbutane	0.54		0.20	0.063	ppb v/v			11/05/19 17:07	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 2

Lab Sample ID: 140-17207-2

Date Collected: 11/01/19 14:55

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylpentane	0.082		0.080	0.014	ppb v/v			11/05/19 17:07	1
4-Ethyltoluene	0.039	J	0.16	0.021	ppb v/v			11/05/19 17:07	1
4-Methyl-2-pentanone (MIBK)	0.28		0.20	0.054	ppb v/v			11/05/19 17:07	1
Acetone	3.5	GT	2.0	0.57	ppb v/v			11/05/19 17:07	1
Benzene	0.13		0.080	0.0080	ppb v/v			11/05/19 17:07	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 17:07	1
Bromodichloromethane	ND		0.080	0.018	ppb v/v			11/05/19 17:07	1
Bromoform	ND	UJ	0.080	0.0090	ppb v/v			11/05/19 17:07	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/05/19 17:07	1
Carbon disulfide	0.031	J	0.20	0.011	ppb v/v			11/05/19 17:07	1
Carbon tetrachloride	0.074		0.032	0.0070	ppb v/v			11/05/19 17:07	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 17:07	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 17:07	1
Chloroform	0.12		0.080	0.0070	ppb v/v			11/05/19 17:07	1
Chloromethane	0.73	GT	0.20	0.066	ppb v/v			11/05/19 17:07	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/05/19 17:07	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 17:07	1
Cyclohexane	0.037	J	0.20	0.023	ppb v/v			11/05/19 17:07	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/05/19 17:07	1
Dichlorodifluoromethane	0.26		0.080	0.014	ppb v/v			11/05/19 17:07	1
Ethylbenzene	0.040	J	0.080	0.013	ppb v/v			11/05/19 17:07	1
Heptane	0.072	J	0.20	0.014	ppb v/v			11/05/19 17:07	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 17:07	1
Hexane	0.10	J	0.20	0.013	ppb v/v			11/05/19 17:07	1
Indane	ND		0.080	0.035	ppb v/v			11/05/19 17:07	1
Indene	ND		0.16	0.039	ppb v/v			11/05/19 17:07	1
Isopropyl alcohol	2.2		0.80	0.22	ppb v/v			11/05/19 17:07	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/05/19 17:07	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 17:07	1
Methylene Chloride	0.53	B	0.40	0.16	ppb v/v			11/05/19 17:07	1
m-Xylene & p-Xylene	0.13		0.080	0.029	ppb v/v			11/05/19 17:07	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/05/19 17:07	1
n-Butane	5.2		0.16	0.083	ppb v/v			11/05/19 17:07	1
n-Decane	0.21	J	0.40	0.038	ppb v/v			11/05/19 17:07	1
n-Dodecane	0.086	J	0.40	0.064	ppb v/v			11/05/19 17:07	1
n-Octane	0.041	J	0.16	0.016	ppb v/v			11/05/19 17:07	1
Nonane	0.039	J	0.20	0.018	ppb v/v			11/05/19 17:07	1
n-Undecane	ND		0.40	0.048	ppb v/v			11/05/19 17:07	1
o-Xylene	0.054	J	0.080	0.015	ppb v/v			11/05/19 17:07	1
Pentane	0.26	J	0.40	0.079	ppb v/v			11/05/19 17:07	1
Propene	1.2	GT	1.0	1.0	ppb v/v			11/05/19 17:07	1
Styrene	ND		0.080	0.024	ppb v/v			11/05/19 17:07	1
Tetrachloroethene	0.30		0.080	0.0070	ppb v/v			11/05/19 17:07	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 17:07	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 17:07	1
Toluene	0.41		0.12	0.078	ppb v/v			11/05/19 17:07	1
trans-1,2-Dichloroethene	0.016	J	0.080	0.0070	ppb v/v			11/05/19 17:07	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 17:07	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 2

Lab Sample ID: 140-17207-2

Date Collected: 11/01/19 14:55

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/05/19 17:07	1
Trichlorofluoromethane	0.23		0.080	0.011	ppb v/v			11/05/19 17:07	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/05/19 17:07	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 17:07	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 17:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	0.61	0.061	ug/m3			11/05/19 17:07	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 17:07	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/05/19 17:07	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 17:07	1
1,2,3-Trimethylbenzene	ND		0.39	0.18	ug/m3			11/05/19 17:07	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 17:07	1
1,2,4-Trimethylbenzene	0.23	J	0.39	0.098	ug/m3			11/05/19 17:07	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 17:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/05/19 17:07	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 17:07	1
1,2-Dichloroethane	0.069	J	0.32	0.040	ug/m3			11/05/19 17:07	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 17:07	1
1,3,5-Trimethylbenzene	ND		0.39	0.11	ug/m3			11/05/19 17:07	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 17:07	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 17:07	1
1,4-Dichlorobenzene	0.24	J	0.48	0.096	ug/m3			11/05/19 17:07	1
1,4-Dioxane	0.19	J	0.72	0.11	ug/m3			11/05/19 17:07	1
2,2,4-Trimethylpentane	0.16	J	0.93	0.037	ug/m3			11/05/19 17:07	1
2,3-Dimethylpentane	ND		0.33	0.11	ug/m3			11/05/19 17:07	1
2-Butanone (MEK)	0.75	J	0.94	0.22	ug/m3			11/05/19 17:07	1
2-Hexanone	0.098	J	0.82	0.066	ug/m3			11/05/19 17:07	1
2-Methylbutane	1.6		0.59	0.19	ug/m3			11/05/19 17:07	1
2-Methylpentane	0.29		0.28	0.049	ug/m3			11/05/19 17:07	1
4-Ethyltoluene	0.19	J	0.79	0.10	ug/m3			11/05/19 17:07	1
4-Methyl-2-pentanone (MIBK)	1.1		0.82	0.22	ug/m3			11/05/19 17:07	1
Acetone	8.3	J	4.8	1.3	ug/m3			11/05/19 17:07	1
Benzene	0.43		0.26	0.026	ug/m3			11/05/19 17:07	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 17:07	1
Bromodichloromethane	ND		0.54	0.12	ug/m3			11/05/19 17:07	1
Bromoform	ND		0.83	0.093	ug/m3			11/05/19 17:07	1
Bromomethane	ND		0.31	0.085	ug/m3			11/05/19 17:07	1
Carbon disulfide	0.098	J	0.62	0.034	ug/m3			11/05/19 17:07	1
Carbon tetrachloride	0.46		0.20	0.044	ug/m3			11/05/19 17:07	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 17:07	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 17:07	1
Chloroform	0.57		0.39	0.034	ug/m3			11/05/19 17:07	1
Chloromethane	1.5	J	0.41	0.14	ug/m3			11/05/19 17:07	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/05/19 17:07	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 17:07	1
Cyclohexane	0.13	J	0.69	0.079	ug/m3			11/05/19 17:07	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/05/19 17:07	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 2

Lab Sample ID: 140-17207-2

Date Collected: 11/01/19 14:55

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.3		0.40	0.069	ug/m3			11/05/19 17:07	1
Ethylbenzene	0.17	J	0.35	0.056	ug/m3			11/05/19 17:07	1
Heptane	0.29	J	0.82	0.057	ug/m3			11/05/19 17:07	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 17:07	1
Hexane	0.36	J	0.70	0.046	ug/m3			11/05/19 17:07	1
Indane	ND		0.39	0.17	ug/m3			11/05/19 17:07	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 17:07	1
Isopropyl alcohol	5.4		2.0	0.54	ug/m3			11/05/19 17:07	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/05/19 17:07	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 17:07	1
Methylene Chloride	1.8	B-UB	1.4	0.56	ug/m3			11/05/19 17:07	1
m-Xylene & p-Xylene	0.55		0.35	0.13	ug/m3			11/05/19 17:07	1
Naphthalene	ND		1.0	0.40	ug/m3			11/05/19 17:07	1
n-Butane	12		0.38	0.20	ug/m3			11/05/19 17:07	1
n-Decane	1.2	J	2.3	0.22	ug/m3			11/05/19 17:07	1
n-Dodecane	0.60	J	2.8	0.45	ug/m3			11/05/19 17:07	1
n-Octane	0.19	J	0.75	0.075	ug/m3			11/05/19 17:07	1
Nonane	0.21	J	1.0	0.094	ug/m3			11/05/19 17:07	1
n-Undecane	ND		2.6	0.31	ug/m3			11/05/19 17:07	1
o-Xylene	0.24	J	0.35	0.065	ug/m3			11/05/19 17:07	1
Pentane	0.76	J	1.2	0.23	ug/m3			11/05/19 17:07	1
Propene	2.1	C+	1.7	1.7	ug/m3			11/05/19 17:07	1
Styrene	ND		0.34	0.10	ug/m3			11/05/19 17:07	1
Tetrachloroethene	2.0		0.54	0.047	ug/m3			11/05/19 17:07	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 17:07	1
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 17:07	1
Toluene	1.6		0.45	0.29	ug/m3			11/05/19 17:07	1
trans-1,2-Dichloroethene	0.065	J	0.32	0.028	ug/m3			11/05/19 17:07	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 17:07	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/05/19 17:07	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/05/19 17:07	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/05/19 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		11/05/19 17:07	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.18	0.18	% v/v			11/08/19 10:54	1.77

Client Sample ID: JR - 1223 - IA - 3

Lab Sample ID: 140-17207-3

Date Collected: 11/01/19 14:58

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 18:05	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 18:05	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 3

Lab Sample ID: 140-17207-3

Date Collected: 11/01/19 14:58

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.080	0.0080	ppb v/v			11/05/19 18:05	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 18:05	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 18:05	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 18:05	1
1,2,3-Trimethylbenzene	0.049	J	0.080	0.036	ppb v/v			11/05/19 18:05	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 18:05	1
1,2,4-Trimethylbenzene	0.096		0.080	0.020	ppb v/v			11/05/19 18:05	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 18:05	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/05/19 18:05	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 18:05	1
1,2-Dichloroethane	0.018	J	0.080	0.010	ppb v/v			11/05/19 18:05	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 18:05	1
1,3,5-Trimethylbenzene	0.029	J	0.080	0.022	ppb v/v			11/05/19 18:05	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 18:05	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 18:05	1
1,4-Dichlorobenzene	0.057	J	0.080	0.016	ppb v/v			11/05/19 18:05	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/05/19 18:05	1
2,2,4-Trimethylpentane	0.035	J	0.20	0.0080	ppb v/v			11/05/19 18:05	1
2,3-Dimethylpentane	ND		0.080	0.026	ppb v/v			11/05/19 18:05	1
2-Butanone (MEK)	0.48		0.32	0.073	ppb v/v			11/05/19 18:05	1
2-Hexanone	0.057	J	0.20	0.016	ppb v/v			11/05/19 18:05	1
2-Methylbutane	0.61		0.20	0.063	ppb v/v			11/05/19 18:05	1
2-Methylpentane	0.091		0.080	0.014	ppb v/v			11/05/19 18:05	1
4-Ethyltoluene	0.037	J	0.16	0.021	ppb v/v			11/05/19 18:05	1
4-Methyl-2-pentanone (MIBK)	0.074	J	0.20	0.054	ppb v/v			11/05/19 18:05	1
Acetone	5.1	CL	2.0	0.57	ppb v/v			11/05/19 18:05	1
Benzene	0.57		0.080	0.0080	ppb v/v			11/05/19 18:05	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 18:05	1
Bromodichloromethane	0.18		0.080	0.018	ppb v/v			11/05/19 18:05	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/05/19 18:05	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/05/19 18:05	1
Carbon disulfide	0.034	J	0.20	0.011	ppb v/v			11/05/19 18:05	1
Carbon tetrachloride	0.080		0.032	0.0070	ppb v/v			11/05/19 18:05	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 18:05	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 18:05	1
Chloroform	1.4		0.080	0.0070	ppb v/v			11/05/19 18:05	1
Chloromethane	0.77	CL	0.20	0.066	ppb v/v			11/05/19 18:05	1
cis-1,2-Dichloroethene	0.062		0.040	0.010	ppb v/v			11/05/19 18:05	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 18:05	1
Cyclohexane	0.057	J	0.20	0.023	ppb v/v			11/05/19 18:05	1
Dibromochloromethane	0.019	J	0.080	0.0070	ppb v/v			11/05/19 18:05	1
Dichlorodifluoromethane	0.27		0.080	0.014	ppb v/v			11/05/19 18:05	1
Ethylbenzene	0.16		0.080	0.013	ppb v/v			11/05/19 18:05	1
Heptane	0.084	J	0.20	0.014	ppb v/v			11/05/19 18:05	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 18:05	1
Hexane	0.13	J	0.20	0.013	ppb v/v			11/05/19 18:05	1
Indane	0.59		0.080	0.035	ppb v/v			11/05/19 18:05	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 3

Lab Sample ID: 140-17207-3

Date Collected: 11/01/19 14:58

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		0.16	0.039	ppb v/v			11/05/19 18:05	1
Isopropyl alcohol	1.4		0.80	0.22	ppb v/v			11/05/19 18:05	1
Isopropylbenzene	0.033	J	0.16	0.017	ppb v/v			11/05/19 18:05	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 18:05	1
Methylene Chloride	0.62		0.40	0.16	ppb v/v			11/05/19 18:05	1
m-Xylene & p-Xylene	0.13		0.080	0.029	ppb v/v			11/05/19 18:05	1
Naphthalene	0.084	J	0.20	0.076	ppb v/v			11/05/19 18:05	1
n-Butane	7.4		0.16	0.083	ppb v/v			11/05/19 18:05	1
n-Decane	0.23	J	0.40	0.038	ppb v/v			11/05/19 18:05	1
n-Dodecane	0.22	J	0.40	0.064	ppb v/v			11/05/19 18:05	1
n-Octane	0.047	J	0.16	0.016	ppb v/v			11/05/19 18:05	1
Nonane	0.051	J	0.20	0.018	ppb v/v			11/05/19 18:05	1
n-Undecane	0.069	J	0.40	0.048	ppb v/v			11/05/19 18:05	1
o-Xylene	0.071	J	0.080	0.015	ppb v/v			11/05/19 18:05	1
Pentane	0.33	J	0.40	0.079	ppb v/v			11/05/19 18:05	1
Propene	2.3		1.0	1.0	ppb v/v			11/05/19 18:05	1
Styrene	ND		0.080	0.024	ppb v/v			11/05/19 18:05	1
Tetrachloroethene	0.35		0.080	0.0070	ppb v/v			11/05/19 18:05	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 18:05	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 18:05	1
Toluene	0.32		0.12	0.078	ppb v/v			11/05/19 18:05	1
trans-1,2-Dichloroethene	0.016	J	0.080	0.0070	ppb v/v			11/05/19 18:05	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 18:05	1
Trichloroethene	0.011	J	0.036	0.0060	ppb v/v			11/05/19 18:05	1
Trichlorofluoromethane	0.23		0.080	0.011	ppb v/v			11/05/19 18:05	1
Vinyl chloride	0.027	J	0.040	0.026	ppb v/v			11/05/19 18:05	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 18:05	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 18:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	0.61	0.061	ug/m3			11/05/19 18:05	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 18:05	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/05/19 18:05	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 18:05	1
1,2,3-Trimethylbenzene	0.24	J	0.39	0.18	ug/m3			11/05/19 18:05	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 18:05	1
1,2,4-Trimethylbenzene	0.47		0.39	0.098	ug/m3			11/05/19 18:05	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 18:05	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/05/19 18:05	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 18:05	1
1,2-Dichloroethane	0.071	J	0.32	0.040	ug/m3			11/05/19 18:05	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 18:05	1
1,3,5-Trimethylbenzene	0.14	J	0.39	0.11	ug/m3			11/05/19 18:05	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 18:05	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 18:05	1
1,4-Dichlorobenzene	0.35	J	0.48	0.096	ug/m3			11/05/19 18:05	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/05/19 18:05	1
2,2,4-Trimethylpentane	0.16	J	0.93	0.037	ug/m3			11/05/19 18:05	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 3

Lab Sample ID: 140-17207-3

Date Collected: 11/01/19 14:58

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Dimethylpentane	ND		0.33	0.11	ug/m3			11/05/19 18:05	1
2-Butanone (MEK)	1.4		0.94	0.22	ug/m3			11/05/19 18:05	1
2-Hexanone	0.24	J	0.82	0.066	ug/m3			11/05/19 18:05	1
2-Methylbutane	1.8		0.59	0.19	ug/m3			11/05/19 18:05	1
2-Methylpentane	0.32		0.28	0.049	ug/m3			11/05/19 18:05	1
4-Ethyltoluene	0.18	J	0.79	0.10	ug/m3			11/05/19 18:05	1
4-Methyl-2-pentanone (MIBK)	0.30	J	0.82	0.22	ug/m3			11/05/19 18:05	1
Acetone	12	er J	4.8	1.3	ug/m3			11/05/19 18:05	1
Benzene	1.8		0.26	0.026	ug/m3			11/05/19 18:05	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 18:05	1
Bromodichloromethane	1.2		0.54	0.12	ug/m3			11/05/19 18:05	1
Bromoform	ND	us	0.83	0.093	ug/m3			11/05/19 18:05	1
Bromomethane	ND		0.31	0.085	ug/m3			11/05/19 18:05	1
Carbon disulfide	0.11	J	0.62	0.034	ug/m3			11/05/19 18:05	1
Carbon tetrachloride	0.51		0.20	0.044	ug/m3			11/05/19 18:05	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 18:05	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 18:05	1
Chloroform	6.8		0.39	0.034	ug/m3			11/05/19 18:05	1
Chloromethane	1.6	er J	0.41	0.14	ug/m3			11/05/19 18:05	1
cis-1,2-Dichloroethene	0.25		0.16	0.040	ug/m3			11/05/19 18:05	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 18:05	1
Cyclohexane	0.20	J	0.69	0.079	ug/m3			11/05/19 18:05	1
Dibromochloromethane	0.17	J	0.68	0.060	ug/m3			11/05/19 18:05	1
Dichlorodifluoromethane	1.4		0.40	0.069	ug/m3			11/05/19 18:05	1
Ethylbenzene	0.70		0.35	0.056	ug/m3			11/05/19 18:05	1
Heptane	0.34	J	0.82	0.057	ug/m3			11/05/19 18:05	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 18:05	1
Hexane	0.47	J	0.70	0.046	ug/m3			11/05/19 18:05	1
Indane	2.8		0.39	0.17	ug/m3			11/05/19 18:05	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 18:05	1
Isopropyl alcohol	3.6		2.0	0.54	ug/m3			11/05/19 18:05	1
Isopropylbenzene	0.16	J	0.79	0.084	ug/m3			11/05/19 18:05	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 18:05	1
Methylene Chloride	2.2	B UB	1.4	0.56	ug/m3			11/05/19 18:05	1
m-Xylene & p-Xylene	0.57		0.35	0.13	ug/m3			11/05/19 18:05	1
Naphthalene	0.44	J	1.0	0.40	ug/m3			11/05/19 18:05	1
n-Butane	18		0.38	0.20	ug/m3			11/05/19 18:05	1
n-Decane	1.4	J	2.3	0.22	ug/m3			11/05/19 18:05	1
n-Dodecane	1.6	J	2.8	0.45	ug/m3			11/05/19 18:05	1
n-Octane	0.22	J	0.75	0.075	ug/m3			11/05/19 18:05	1
Nonane	0.27	J	1.0	0.094	ug/m3			11/05/19 18:05	1
n-Undecane	0.44	J	2.6	0.31	ug/m3			11/05/19 18:05	1
o-Xylene	0.31	J	0.35	0.065	ug/m3			11/05/19 18:05	1
Pentane	0.97	J	1.2	0.23	ug/m3			11/05/19 18:05	1
Propene	3.9	er J	1.7	1.7	ug/m3			11/05/19 18:05	1
Styrene	ND		0.34	0.10	ug/m3			11/05/19 18:05	1
Tetrachloroethene	2.4		0.54	0.047	ug/m3			11/05/19 18:05	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 18:05	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 3

Lab Sample ID: 140-17207-3

Date Collected: 11/01/19 14:58

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 18:05	1
Toluene	1.2		0.45	0.29	ug/m3			11/05/19 18:05	1
trans-1,2-Dichloroethene	0.064	J	0.32	0.028	ug/m3			11/05/19 18:05	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 18:05	1
Trichloroethene	0.057	J	0.19	0.032	ug/m3			11/05/19 18:05	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/05/19 18:05	1
Vinyl chloride	0.069	J	0.10	0.066	ug/m3			11/05/19 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		11/05/19 18:05	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.19	0.19	% v/v			11/08/19 11:11	1.85

Client Sample ID: JR - 1223 - IA - 4

Lab Sample ID: 140-17207-4

Date Collected: 11/01/19 15:32

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 19:03	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.080	0.0080	ppb v/v			11/05/19 19:03	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 19:03	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 19:03	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 19:03	1
1,2,3-Trimethylbenzene	ND		0.080	0.036	ppb v/v			11/05/19 19:03	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 19:03	1
1,2,4-Trimethylbenzene	ND		0.080	0.020	ppb v/v			11/05/19 19:03	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 19:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.018	J	0.080	0.012	ppb v/v			11/05/19 19:03	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 19:03	1
1,2-Dichloroethane	0.015	J	0.080	0.010	ppb v/v			11/05/19 19:03	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 19:03	1
1,3,5-Trimethylbenzene	ND		0.080	0.022	ppb v/v			11/05/19 19:03	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 19:03	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 19:03	1
1,4-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 19:03	1
1,4-Dioxane	0.056	J	0.20	0.030	ppb v/v			11/05/19 19:03	1
2,2,4-Trimethylpentane	0.080	J	0.20	0.0080	ppb v/v			11/05/19 19:03	1
2,3-Dimethylpentane	0.041	J	0.080	0.026	ppb v/v			11/05/19 19:03	1
2-Butanone (MEK)	0.28	J	0.32	0.073	ppb v/v			11/05/19 19:03	1
2-Hexanone	0.018	J	0.20	0.016	ppb v/v			11/05/19 19:03	1
2-Methylbutane	2.9	J	0.20	0.063	ppb v/v			11/05/19 19:03	1
2-Methylpentane	0.35	J	0.080	0.014	ppb v/v			11/05/19 19:03	1
4-Ethyltoluene	ND		0.16	0.021	ppb v/v			11/05/19 19:03	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 4

Lab Sample ID: 140-17207-4

Date Collected: 11/01/19 15:32

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	0.060	J	0.20	0.054	ppb v/v			11/05/19 19:03	1
Acetone	3.1	J	2.0	0.57	ppb v/v			11/05/19 19:03	1
Benzene	0.16		0.080	0.0080	ppb v/v			11/05/19 19:03	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 19:03	1
Bromodichloromethane	ND		0.080	0.018	ppb v/v			11/05/19 19:03	1
Bromoform	ND	US	0.080	0.0090	ppb v/v			11/05/19 19:03	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/05/19 19:03	1
Carbon disulfide	0.013	J	0.20	0.011	ppb v/v			11/05/19 19:03	1
Carbon tetrachloride	0.070		0.032	0.0070	ppb v/v			11/05/19 19:03	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 19:03	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 19:03	1
Chloroform	0.078	J	0.080	0.0070	ppb v/v			11/05/19 19:03	1
Chloromethane	0.71	CH	0.20	0.066	ppb v/v			11/05/19 19:03	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/05/19 19:03	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 19:03	1
Cyclohexane	0.087	J	0.20	0.023	ppb v/v			11/05/19 19:03	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/05/19 19:03	1
Dichlorodifluoromethane	0.30		0.080	0.014	ppb v/v			11/05/19 19:03	1
Ethylbenzene	0.036	J	0.080	0.013	ppb v/v			11/05/19 19:03	1
Heptane	0.091	J	0.20	0.014	ppb v/v			11/05/19 19:03	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 19:03	1
Hexane	0.57		0.20	0.013	ppb v/v			11/05/19 19:03	1
Indane	ND		0.080	0.035	ppb v/v			11/05/19 19:03	1
Indene	ND		0.16	0.039	ppb v/v			11/05/19 19:03	1
Isopropyl alcohol	4.8		0.80	0.22	ppb v/v			11/05/19 19:03	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/05/19 19:03	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 19:03	1
Methylene Chloride	3.3	B	0.40	0.16	ppb v/v			11/05/19 19:03	1
m-Xylene & p-Xylene	0.10		0.080	0.029	ppb v/v			11/05/19 19:03	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/05/19 19:03	1
n-Butane	8.2	J	0.16	0.083	ppb v/v			11/05/19 19:03	1
n-Decane	ND		0.40	0.038	ppb v/v			11/05/19 19:03	1
n-Dodecane	ND		0.40	0.064	ppb v/v			11/05/19 19:03	1
n-Octane	0.030	J	0.16	0.016	ppb v/v			11/05/19 19:03	1
Nonane	ND		0.20	0.018	ppb v/v			11/05/19 19:03	1
n-Undecane	ND		0.40	0.048	ppb v/v			11/05/19 19:03	1
o-Xylene	0.035	J	0.080	0.015	ppb v/v			11/05/19 19:03	1
Pentane	1.9	J	0.40	0.079	ppb v/v			11/05/19 19:03	1
Propene	1.1	CH	1.0	1.0	ppb v/v			11/05/19 19:03	1
Styrene	ND		0.080	0.024	ppb v/v			11/05/19 19:03	1
Tetrachloroethene	0.071	J	0.080	0.0070	ppb v/v			11/05/19 19:03	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 19:03	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 19:03	1
Toluene	0.52		0.12	0.078	ppb v/v			11/05/19 19:03	1
trans-1,2-Dichloroethene	0.0070	J	0.080	0.0070	ppb v/v			11/05/19 19:03	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 19:03	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/05/19 19:03	1
Trichlorofluoromethane	0.26		0.080	0.011	ppb v/v			11/05/19 19:03	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 4

Lab Sample ID: 140-17207-4

Date Collected: 11/01/19 15:32

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/05/19 19:03	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 19:03	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	0.61	0.061	ug/m3			11/05/19 19:03	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 19:03	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/05/19 19:03	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 19:03	1
1,2,3-Trimethylbenzene	ND		0.39	0.18	ug/m3			11/05/19 19:03	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 19:03	1
1,2,4-Trimethylbenzene	ND		0.39	0.098	ug/m3			11/05/19 19:03	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 19:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.13	J	0.56	0.084	ug/m3			11/05/19 19:03	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 19:03	1
1,2-Dichloroethane	0.060	J	0.32	0.040	ug/m3			11/05/19 19:03	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 19:03	1
1,3,5-Trimethylbenzene	ND		0.39	0.11	ug/m3			11/05/19 19:03	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 19:03	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 19:03	1
1,4-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 19:03	1
1,4-Dioxane	0.20	J	0.72	0.11	ug/m3			11/05/19 19:03	1
2,2,4-Trimethylpentane	0.37	J	0.93	0.037	ug/m3			11/05/19 19:03	1
2,3-Dimethylpentane	0.17	J	0.33	0.11	ug/m3			11/05/19 19:03	1
2-Butanone (MEK)	0.84	J	0.94	0.22	ug/m3			11/05/19 19:03	1
2-Hexanone	0.073	J	0.82	0.066	ug/m3			11/05/19 19:03	1
2-Methylbutane	8.5	J	0.59	0.19	ug/m3			11/05/19 19:03	1
2-Methylpentane	1.2	J	0.28	0.049	ug/m3			11/05/19 19:03	1
4-Ethyltoluene	ND		0.79	0.10	ug/m3			11/05/19 19:03	1
4-Methyl-2-pentanone (MIBK)	0.25	J	0.82	0.22	ug/m3			11/05/19 19:03	1
Acetone	7.4	J	4.8	1.3	ug/m3			11/05/19 19:03	1
Benzene	0.50	J	0.26	0.026	ug/m3			11/05/19 19:03	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 19:03	1
Bromodichloromethane	ND		0.54	0.12	ug/m3			11/05/19 19:03	1
Bromoform	ND		0.83	0.093	ug/m3			11/05/19 19:03	1
Bromomethane	ND		0.31	0.085	ug/m3			11/05/19 19:03	1
Carbon disulfide	0.041	J	0.62	0.034	ug/m3			11/05/19 19:03	1
Carbon tetrachloride	0.44		0.20	0.044	ug/m3			11/05/19 19:03	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 19:03	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 19:03	1
Chloroform	0.38	J	0.39	0.034	ug/m3			11/05/19 19:03	1
Chloromethane	1.5	J	0.41	0.14	ug/m3			11/05/19 19:03	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/05/19 19:03	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 19:03	1
Cyclohexane	0.30	J	0.69	0.079	ug/m3			11/05/19 19:03	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/05/19 19:03	1
Dichlorodifluoromethane	1.5		0.40	0.069	ug/m3			11/05/19 19:03	1
Ethylbenzene	0.15	J	0.35	0.056	ug/m3			11/05/19 19:03	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: JR - 1223 - IA - 4

Lab Sample ID: 140-17207-4

Date Collected: 11/01/19 15:32

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptane	0.37	J	0.82	0.057	ug/m3			11/05/19 19:03	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 19:03	1
Hexane	2.0		0.70	0.046	ug/m3			11/05/19 19:03	1
Indane	ND		0.39	0.17	ug/m3			11/05/19 19:03	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 19:03	1
Isopropyl alcohol	12		2.0	0.54	ug/m3			11/05/19 19:03	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/05/19 19:03	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 19:03	1
Methylene Chloride	11		1.4	0.56	ug/m3			11/05/19 19:03	1
m-Xylene & p-Xylene	0.44		0.35	0.13	ug/m3			11/05/19 19:03	1
Naphthalene	ND		1.0	0.40	ug/m3			11/05/19 19:03	1
n-Butane	20		0.38	0.20	ug/m3			11/05/19 19:03	1
n-Decane	ND		2.3	0.22	ug/m3			11/05/19 19:03	1
n-Dodecane	ND		2.8	0.45	ug/m3			11/05/19 19:03	1
n-Octane	0.14	J	0.75	0.075	ug/m3			11/05/19 19:03	1
Nonane	ND		1.0	0.094	ug/m3			11/05/19 19:03	1
n-Undecane	ND		2.6	0.31	ug/m3			11/05/19 19:03	1
o-Xylene	0.15	J	0.35	0.065	ug/m3			11/05/19 19:03	1
Pentane	5.6		1.2	0.23	ug/m3			11/05/19 19:03	1
Propene	1.8		1.7	1.7	ug/m3			11/05/19 19:03	1
Styrene	ND		0.34	0.10	ug/m3			11/05/19 19:03	1
Tetrachloroethene	0.48	J	0.54	0.047	ug/m3			11/05/19 19:03	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 19:03	1
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 19:03	1
Toluene	2.0		0.45	0.29	ug/m3			11/05/19 19:03	1
trans-1,2-Dichloroethene	0.028	J	0.32	0.028	ug/m3			11/05/19 19:03	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 19:03	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/05/19 19:03	1
Trichlorofluoromethane	1.5		0.45	0.062	ug/m3			11/05/19 19:03	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/05/19 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140		11/05/19 19:03	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.13	0.13	% v/v			11/08/19 11:29	1.27

Client Sample ID: AA 110119

Lab Sample ID: 140-17207-5

Date Collected: 11/01/19 15:03

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 20:01	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 20:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.080	0.0080	ppb v/v			11/05/19 20:01	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 20:01	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: AA 110119

Lab Sample ID: 140-17207-5

Date Collected: 11/01/19 15:03

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 20:01	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 20:01	1
1,2,3-Trimethylbenzene	ND		0.080	0.036	ppb v/v			11/05/19 20:01	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 20:01	1
1,2,4-Trimethylbenzene	0.030	J	0.080	0.020	ppb v/v			11/05/19 20:01	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 20:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/05/19 20:01	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 20:01	1
1,2-Dichloroethane	0.012	J	0.080	0.010	ppb v/v			11/05/19 20:01	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 20:01	1
1,3,5-Trimethylbenzene	ND		0.080	0.022	ppb v/v			11/05/19 20:01	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 20:01	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 20:01	1
1,4-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 20:01	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/05/19 20:01	1
2,2,4-Trimethylpentane	0.040	J	0.20	0.0080	ppb v/v			11/05/19 20:01	1
2,3-Dimethylpentane	ND		0.080	0.026	ppb v/v			11/05/19 20:01	1
2-Butanone (MEK)	0.12	J	0.32	0.073	ppb v/v			11/05/19 20:01	1
2-Hexanone	ND		0.20	0.016	ppb v/v			11/05/19 20:01	1
2-Methylbutane	0.89		0.20	0.063	ppb v/v			11/05/19 20:01	1
2-Methylpentane	0.13		0.080	0.014	ppb v/v			11/05/19 20:01	1
4-Ethyltoluene	ND		0.16	0.021	ppb v/v			11/05/19 20:01	1
4-Methyl-2-pentanone (MIBK)	0.059	J	0.20	0.054	ppb v/v			11/05/19 20:01	1
Acetone	1.6	J	2.0	0.57	ppb v/v			11/05/19 20:01	1
Benzene	0.13		0.080	0.0080	ppb v/v			11/05/19 20:01	1
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 20:01	1
Bromodichloromethane	ND		0.080	0.018	ppb v/v			11/05/19 20:01	1
Bromoform	ND		0.080	0.0090	ppb v/v			11/05/19 20:01	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/05/19 20:01	1
Carbon disulfide	0.011	J	0.20	0.011	ppb v/v			11/05/19 20:01	1
Carbon tetrachloride	0.074		0.032	0.0070	ppb v/v			11/05/19 20:01	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 20:01	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 20:01	1
Chloroform	0.054	J	0.080	0.0070	ppb v/v			11/05/19 20:01	1
Chloromethane	0.69		0.20	0.066	ppb v/v			11/05/19 20:01	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/05/19 20:01	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 20:01	1
Cyclohexane	0.050	J	0.20	0.023	ppb v/v			11/05/19 20:01	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/05/19 20:01	1
Dichlorodifluoromethane	0.25		0.080	0.014	ppb v/v			11/05/19 20:01	1
Ethylbenzene	0.032	J	0.080	0.013	ppb v/v			11/05/19 20:01	1
Heptane	0.052	J	0.20	0.014	ppb v/v			11/05/19 20:01	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 20:01	1
Hexane	0.15	J	0.20	0.013	ppb v/v			11/05/19 20:01	1
Indane	ND		0.080	0.035	ppb v/v			11/05/19 20:01	1
Indene	ND		0.16	0.039	ppb v/v			11/05/19 20:01	1
Isopropyl alcohol	0.63	J	0.80	0.22	ppb v/v			11/05/19 20:01	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/05/19 20:01	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: AA 110119

Lab Sample ID: 140-17207-5

Date Collected: 11/01/19 15:03

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 20:01	1
Methylene Chloride	0.57	B-UB	0.40	0.16	ppb v/v			11/05/19 20:01	1
m-Xylene & p-Xylene	0.098		0.080	0.029	ppb v/v			11/05/19 20:01	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/05/19 20:01	1
n-Butane	2.3		0.16	0.083	ppb v/v			11/05/19 20:01	1
n-Decane	0.040	J	0.40	0.038	ppb v/v			11/05/19 20:01	1
n-Dodecane	ND		0.40	0.064	ppb v/v			11/05/19 20:01	1
n-Octane	0.026	J	0.16	0.016	ppb v/v			11/05/19 20:01	1
Nonane	0.023	J	0.20	0.018	ppb v/v			11/05/19 20:01	1
n-Undecane	ND		0.40	0.048	ppb v/v			11/05/19 20:01	1
o-Xylene	0.039	J	0.080	0.015	ppb v/v			11/05/19 20:01	1
Pentane	0.45		0.40	0.079	ppb v/v			11/05/19 20:01	1
Propene	ND		1.0	1.0	ppb v/v			11/05/19 20:01	1
Styrene	ND		0.080	0.024	ppb v/v			11/05/19 20:01	1
Tetrachloroethene	0.074	J	0.080	0.0070	ppb v/v			11/05/19 20:01	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 20:01	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 20:01	1
Toluene	0.23		0.12	0.078	ppb v/v			11/05/19 20:01	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/05/19 20:01	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 20:01	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/05/19 20:01	1
Trichlorofluoromethane	0.23		0.080	0.011	ppb v/v			11/05/19 20:01	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/05/19 20:01	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 20:01	1
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 20:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	0.61	0.061	ug/m3			11/05/19 20:01	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 20:01	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/05/19 20:01	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 20:01	1
1,2,3-Trimethylbenzene	ND		0.39	0.18	ug/m3			11/05/19 20:01	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 20:01	1
1,2,4-Trimethylbenzene	0.15	J	0.39	0.098	ug/m3			11/05/19 20:01	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 20:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/05/19 20:01	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 20:01	1
1,2-Dichloroethane	0.048	J	0.32	0.040	ug/m3			11/05/19 20:01	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 20:01	1
1,3,5-Trimethylbenzene	ND		0.39	0.11	ug/m3			11/05/19 20:01	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 20:01	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 20:01	1
1,4-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 20:01	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/05/19 20:01	1
2,2,4-Trimethylpentane	0.19	J	0.93	0.037	ug/m3			11/05/19 20:01	1
2,3-Dimethylpentane	ND		0.33	0.11	ug/m3			11/05/19 20:01	1
2-Butanone (MEK)	0.34	J	0.94	0.22	ug/m3			11/05/19 20:01	1
2-Hexanone	ND		0.82	0.066	ug/m3			11/05/19 20:01	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: AA 110119

Lab Sample ID: 140-17207-5

Date Collected: 11/01/19 15:03

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylbutane	2.6		0.59	0.19	ug/m3			11/05/19 20:01	1
2-Methylpentane	0.47		0.28	0.049	ug/m3			11/05/19 20:01	1
4-Ethyltoluene	ND		0.79	0.10	ug/m3			11/05/19 20:01	1
4-Methyl-2-pentanone (MIBK)	0.24	J	0.82	0.22	ug/m3			11/05/19 20:01	1
Acetone	3.9	J	4.8	1.3	ug/m3			11/05/19 20:01	1
Benzene	0.41		0.26	0.026	ug/m3			11/05/19 20:01	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 20:01	1
Bromodichloromethane	ND		0.54	0.12	ug/m3			11/05/19 20:01	1
Bromoform	ND	US	0.83	0.093	ug/m3			11/05/19 20:01	1
Bromomethane	ND		0.31	0.085	ug/m3			11/05/19 20:01	1
Carbon disulfide	0.035	J	0.62	0.034	ug/m3			11/05/19 20:01	1
Carbon tetrachloride	0.46		0.20	0.044	ug/m3			11/05/19 20:01	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 20:01	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 20:01	1
Chloroform	0.26	J	0.39	0.034	ug/m3			11/05/19 20:01	1
Chloromethane	1.4		0.41	0.14	ug/m3			11/05/19 20:01	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/05/19 20:01	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 20:01	1
Cyclohexane	0.17	J	0.69	0.079	ug/m3			11/05/19 20:01	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/05/19 20:01	1
Dichlorodifluoromethane	1.2		0.40	0.069	ug/m3			11/05/19 20:01	1
Ethylbenzene	0.14	J	0.35	0.056	ug/m3			11/05/19 20:01	1
Heptane	0.21	J	0.82	0.057	ug/m3			11/05/19 20:01	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 20:01	1
Hexane	0.51	J	0.70	0.046	ug/m3			11/05/19 20:01	1
Indane	ND		0.39	0.17	ug/m3			11/05/19 20:01	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 20:01	1
Isopropyl alcohol	1.6	J	2.0	0.54	ug/m3			11/05/19 20:01	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/05/19 20:01	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 20:01	1
Methylene Chloride	2.0	B-UB	1.4	0.56	ug/m3			11/05/19 20:01	1
m-Xylene & p-Xylene	0.42		0.35	0.13	ug/m3			11/05/19 20:01	1
Naphthalene	ND		1.0	0.40	ug/m3			11/05/19 20:01	1
n-Butane	5.5		0.38	0.20	ug/m3			11/05/19 20:01	1
n-Decane	0.24	J	2.3	0.22	ug/m3			11/05/19 20:01	1
n-Dodecane	ND		2.8	0.45	ug/m3			11/05/19 20:01	1
n-Octane	0.12	J	0.75	0.075	ug/m3			11/05/19 20:01	1
Nonane	0.12	J	1.0	0.094	ug/m3			11/05/19 20:01	1
n-Undecane	ND		2.6	0.31	ug/m3			11/05/19 20:01	1
o-Xylene	0.17	J	0.35	0.065	ug/m3			11/05/19 20:01	1
Pentane	1.3		1.2	0.23	ug/m3			11/05/19 20:01	1
Propene	ND		1.7	1.7	ug/m3			11/05/19 20:01	1
Styrene	ND		0.34	0.10	ug/m3			11/05/19 20:01	1
Tetrachloroethene	0.50	J	0.54	0.047	ug/m3			11/05/19 20:01	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 20:01	1
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 20:01	1
Toluene	0.86		0.45	0.29	ug/m3			11/05/19 20:01	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/05/19 20:01	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: AA 110119

Lab Sample ID: 140-17207-5

Date Collected: 11/01/19 15:03

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 20:01	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/05/19 20:01	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/05/19 20:01	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/05/19 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140		11/05/19 20:01	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.18	0.18	% v/v			11/08/19 11:46	1.81

Client Sample ID: DUP - 110119

Lab Sample ID: 140-17207-6

Date Collected: 11/01/19 00:00

Matrix: Air

Date Received: 11/02/19 10:15

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080	0.037	ppb v/v			11/05/19 20:58	1
1,1,2,2-Tetrachloroethane	ND		0.080	0.014	ppb v/v			11/05/19 20:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.080	0.0080	ppb v/v			11/05/19 20:58	1
1,1,2-Trichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 20:58	1
1,1-Dichloroethane	ND		0.080	0.0070	ppb v/v			11/05/19 20:58	1
1,1-Dichloroethene	ND		0.040	0.0080	ppb v/v			11/05/19 20:58	1
1,2,3-Trimethylbenzene	ND		0.080	0.036	ppb v/v			11/05/19 20:58	1
1,2,4-Trichlorobenzene	ND		0.080	0.064	ppb v/v			11/05/19 20:58	1
1,2,4-Trimethylbenzene	0.024	J	0.080	0.020	ppb v/v			11/05/19 20:58	1
1,2-Dibromoethane (EDB)	ND		0.080	0.0070	ppb v/v			11/05/19 20:58	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.017	J	0.080	0.012	ppb v/v			11/05/19 20:58	1
1,2-Dichlorobenzene	ND		0.080	0.031	ppb v/v			11/05/19 20:58	1
1,2-Dichloroethane	0.015	J	0.080	0.010	ppb v/v			11/05/19 20:58	1
1,2-Dichloropropane	ND		0.080	0.010	ppb v/v			11/05/19 20:58	1
1,3,5-Trimethylbenzene	ND		0.080	0.022	ppb v/v			11/05/19 20:58	1
1,3-Butadiene	ND		0.16	0.019	ppb v/v			11/05/19 20:58	1
1,3-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 20:58	1
1,4-Dichlorobenzene	ND		0.080	0.016	ppb v/v			11/05/19 20:58	1
1,4-Dioxane	ND		0.20	0.030	ppb v/v			11/05/19 20:58	1
2,2,4-Trimethylpentane	0.031	J	0.20	0.0080	ppb v/v			11/05/19 20:58	1
2,3-Dimethylpentane	ND		0.080	0.026	ppb v/v			11/05/19 20:58	1
2-Butanone (MEK)	0.38		0.32	0.073	ppb v/v			11/05/19 20:58	1
2-Hexanone	0.037	J	0.20	0.016	ppb v/v			11/05/19 20:58	1
2-Methylbutane	0.33	J	0.20	0.063	ppb v/v			11/05/19 20:58	1
2-Methylpentane	0.076	J	0.080	0.014	ppb v/v			11/05/19 20:58	1
4-Ethyltoluene	ND		0.16	0.021	ppb v/v			11/05/19 20:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.20	0.054	ppb v/v			11/05/19 20:58	1
Acetone	5.3	CT-J	2.0	0.57	ppb v/v			11/05/19 20:58	1
Benzene	0.12		0.080	0.0080	ppb v/v			11/05/19 20:58	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: DUP - 110119

Lab Sample ID: 140-17207-6

Date Collected: 11/01/19 00:00

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		0.16	0.038	ppb v/v			11/05/19 20:58	1
Bromodichloromethane	ND		0.080	0.018	ppb v/v			11/05/19 20:58	1
Bromoform	ND	US	0.080	0.0090	ppb v/v			11/05/19 20:58	1
Bromomethane	ND		0.080	0.022	ppb v/v			11/05/19 20:58	1
Carbon disulfide	ND		0.20	0.011	ppb v/v			11/05/19 20:58	1
Carbon tetrachloride	0.080		0.032	0.0070	ppb v/v			11/05/19 20:58	1
Chlorobenzene	ND		0.080	0.0060	ppb v/v			11/05/19 20:58	1
Chloroethane	ND		0.080	0.029	ppb v/v			11/05/19 20:58	1
Chloroform	0.086		0.080	0.0070	ppb v/v			11/05/19 20:58	1
Chloromethane	0.65		0.20	0.066	ppb v/v			11/05/19 20:58	1
cis-1,2-Dichloroethene	ND		0.040	0.010	ppb v/v			11/05/19 20:58	1
cis-1,3-Dichloropropene	ND		0.080	0.016	ppb v/v			11/05/19 20:58	1
Cyclohexane	0.041	J	0.20	0.023	ppb v/v			11/05/19 20:58	1
Dibromochloromethane	ND		0.080	0.0070	ppb v/v			11/05/19 20:58	1
Dichlorodifluoromethane	0.26		0.080	0.014	ppb v/v			11/05/19 20:58	1
Ethylbenzene	0.025	J	0.080	0.013	ppb v/v			11/05/19 20:58	1
Heptane	0.057	J	0.20	0.014	ppb v/v			11/05/19 20:58	1
Hexachlorobutadiene	ND		0.080	0.032	ppb v/v			11/05/19 20:58	1
Hexane	0.11	J	0.20	0.013	ppb v/v			11/05/19 20:58	1
Indane	ND		0.080	0.035	ppb v/v			11/05/19 20:58	1
Indene	ND		0.16	0.039	ppb v/v			11/05/19 20:58	1
Isopropyl alcohol	5.6		0.80	0.22	ppb v/v			11/05/19 20:58	1
Isopropylbenzene	ND		0.16	0.017	ppb v/v			11/05/19 20:58	1
Methyl tert-butyl ether	ND		0.16	0.052	ppb v/v			11/05/19 20:58	1
Methylene Chloride	0.58	B-UBJ	0.40	0.16	ppb v/v			11/05/19 20:58	1
m-Xylene & p-Xylene	0.074	J	0.080	0.029	ppb v/v			11/05/19 20:58	1
Naphthalene	ND		0.20	0.076	ppb v/v			11/05/19 20:58	1
n-Butane	1.6	J	0.16	0.083	ppb v/v			11/05/19 20:58	1
n-Decane	0.068	J	0.40	0.038	ppb v/v			11/05/19 20:58	1
n-Dodecane	ND		0.40	0.064	ppb v/v			11/05/19 20:58	1
n-Octane	0.027	J	0.16	0.016	ppb v/v			11/05/19 20:58	1
Nonane	0.025	J	0.20	0.018	ppb v/v			11/05/19 20:58	1
n-Undecane	ND		0.40	0.048	ppb v/v			11/05/19 20:58	1
o-Xylene	0.031	J	0.080	0.015	ppb v/v			11/05/19 20:58	1
Pentane	0.22	J	0.40	0.079	ppb v/v			11/05/19 20:58	1
Propene	ND		1.0	1.0	ppb v/v			11/05/19 20:58	1
Styrene	ND		0.080	0.024	ppb v/v			11/05/19 20:58	1
Tetrachloroethene	0.094		0.080	0.0070	ppb v/v			11/05/19 20:58	1
Tetrahydrofuran	ND		0.40	0.15	ppb v/v			11/05/19 20:58	1
Thiophene	ND		0.080	0.011	ppb v/v			11/05/19 20:58	1
Toluene	0.19		0.12	0.078	ppb v/v			11/05/19 20:58	1
trans-1,2-Dichloroethene	ND		0.080	0.0070	ppb v/v			11/05/19 20:58	1
trans-1,3-Dichloropropene	ND		0.080	0.0090	ppb v/v			11/05/19 20:58	1
Trichloroethene	ND		0.036	0.0060	ppb v/v			11/05/19 20:58	1
Trichlorofluoromethane	0.24		0.080	0.011	ppb v/v			11/05/19 20:58	1
Vinyl chloride	ND		0.040	0.026	ppb v/v			11/05/19 20:58	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44	0.20	ug/m3			11/05/19 20:58	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: DUP - 110119

Lab Sample ID: 140-17207-6

Date Collected: 11/01/19 00:00

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.55	0.096	ug/m3			11/05/19 20:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	0.61	0.061	ug/m3			11/05/19 20:58	1
1,1,2-Trichloroethane	ND		0.44	0.038	ug/m3			11/05/19 20:58	1
1,1-Dichloroethane	ND		0.32	0.028	ug/m3			11/05/19 20:58	1
1,1-Dichloroethene	ND		0.16	0.032	ug/m3			11/05/19 20:58	1
1,2,3-Trimethylbenzene	ND		0.39	0.18	ug/m3			11/05/19 20:58	1
1,2,4-Trichlorobenzene	ND		0.59	0.47	ug/m3			11/05/19 20:58	1
1,2,4-Trimethylbenzene	0.12	J	0.39	0.098	ug/m3			11/05/19 20:58	1
1,2-Dibromoethane (EDB)	ND		0.61	0.054	ug/m3			11/05/19 20:58	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.12	J	0.56	0.084	ug/m3			11/05/19 20:58	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/m3			11/05/19 20:58	1
1,2-Dichloroethane	0.060	J	0.32	0.040	ug/m3			11/05/19 20:58	1
1,2-Dichloropropane	ND		0.37	0.046	ug/m3			11/05/19 20:58	1
1,3,5-Trimethylbenzene	ND		0.39	0.11	ug/m3			11/05/19 20:58	1
1,3-Butadiene	ND		0.35	0.042	ug/m3			11/05/19 20:58	1
1,3-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 20:58	1
1,4-Dichlorobenzene	ND		0.48	0.096	ug/m3			11/05/19 20:58	1
1,4-Dioxane	ND		0.72	0.11	ug/m3			11/05/19 20:58	1
2,2,4-Trimethylpentane	0.15	J	0.93	0.037	ug/m3			11/05/19 20:58	1
2,3-Dimethylpentane	ND		0.33	0.11	ug/m3			11/05/19 20:58	1
2-Butanone (MEK)	1.1		0.94	0.22	ug/m3			11/05/19 20:58	1
2-Hexanone	0.15	J	0.82	0.066	ug/m3			11/05/19 20:58	1
2-Methylbutane	0.98	J	0.59	0.19	ug/m3			11/05/19 20:58	1
2-Methylpentane	0.27	J	0.28	0.049	ug/m3			11/05/19 20:58	1
4-Ethyltoluene	ND		0.79	0.10	ug/m3			11/05/19 20:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.82	0.22	ug/m3			11/05/19 20:58	1
Acetone	13	GL-J	4.8	1.3	ug/m3			11/05/19 20:58	1
Benzene	0.37		0.26	0.026	ug/m3			11/05/19 20:58	1
Benzyl chloride	ND		0.83	0.20	ug/m3			11/05/19 20:58	1
Bromodichloromethane	ND		0.54	0.12	ug/m3			11/05/19 20:58	1
Bromoform	ND	UJ	0.83	0.093	ug/m3			11/05/19 20:58	1
Bromomethane	ND		0.31	0.085	ug/m3			11/05/19 20:58	1
Carbon disulfide	ND		0.62	0.034	ug/m3			11/05/19 20:58	1
Carbon tetrachloride	0.50		0.20	0.044	ug/m3			11/05/19 20:58	1
Chlorobenzene	ND		0.37	0.028	ug/m3			11/05/19 20:58	1
Chloroethane	ND		0.21	0.077	ug/m3			11/05/19 20:58	1
Chloroform	0.42		0.39	0.034	ug/m3			11/05/19 20:58	1
Chloromethane	1.3		0.41	0.14	ug/m3			11/05/19 20:58	1
cis-1,2-Dichloroethene	ND		0.16	0.040	ug/m3			11/05/19 20:58	1
cis-1,3-Dichloropropene	ND		0.36	0.073	ug/m3			11/05/19 20:58	1
Cyclohexane	0.14	J	0.69	0.079	ug/m3			11/05/19 20:58	1
Dibromochloromethane	ND		0.68	0.060	ug/m3			11/05/19 20:58	1
Dichlorodifluoromethane	1.3		0.40	0.069	ug/m3			11/05/19 20:58	1
Ethylbenzene	0.11	J	0.35	0.056	ug/m3			11/05/19 20:58	1
Heptane	0.23	J	0.82	0.057	ug/m3			11/05/19 20:58	1
Hexachlorobutadiene	ND		0.85	0.34	ug/m3			11/05/19 20:58	1
Hexane	0.38	J	0.70	0.046	ug/m3			11/05/19 20:58	1

Eurofins TestAmerica, Knoxville

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Con Edison - East 11th Street

Job ID: 140-17207-1

Client Sample ID: DUP - 110119

Lab Sample ID: 140-17207-6

Date Collected: 11/01/19 00:00

Date Received: 11/02/19 10:15

Matrix: Air

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.39	0.17	ug/m3			11/05/19 20:58	1
Indene	ND		0.76	0.19	ug/m3			11/05/19 20:58	1
Isopropyl alcohol	14		2.0	0.54	ug/m3			11/05/19 20:58	1
Isopropylbenzene	ND		0.79	0.084	ug/m3			11/05/19 20:58	1
Methyl tert-butyl ether	ND		0.58	0.19	ug/m3			11/05/19 20:58	1
Methylene Chloride	2.0	B-UBJ	1.4	0.56	ug/m3			11/05/19 20:58	1
m-Xylene & p-Xylene	0.32	J	0.35	0.13	ug/m3			11/05/19 20:58	1
Naphthalene	ND		1.0	0.40	ug/m3			11/05/19 20:58	1
n-Butane	3.8	J	0.38	0.20	ug/m3			11/05/19 20:58	1
n-Decane	0.39	J	2.3	0.22	ug/m3			11/05/19 20:58	1
n-Dodecane	ND		2.8	0.45	ug/m3			11/05/19 20:58	1
n-Octane	0.13	J	0.75	0.075	ug/m3			11/05/19 20:58	1
Nonane	0.13	J	1.0	0.094	ug/m3			11/05/19 20:58	1
n-Undecane	ND		2.6	0.31	ug/m3			11/05/19 20:58	1
o-Xylene	0.13	J	0.35	0.065	ug/m3			11/05/19 20:58	1
Pentane	0.64	J	1.2	0.23	ug/m3			11/05/19 20:58	1
Propene	ND		1.7	1.7	ug/m3			11/05/19 20:58	1
Styrene	ND		0.34	0.10	ug/m3			11/05/19 20:58	1
Tetrachloroethene	0.63		0.54	0.047	ug/m3			11/05/19 20:58	1
Tetrahydrofuran	ND		1.2	0.45	ug/m3			11/05/19 20:58	1
Thiophene	ND		0.28	0.038	ug/m3			11/05/19 20:58	1
Toluene	0.72		0.45	0.29	ug/m3			11/05/19 20:58	1
trans-1,2-Dichloroethene	ND		0.32	0.028	ug/m3			11/05/19 20:58	1
trans-1,3-Dichloropropene	ND		0.36	0.041	ug/m3			11/05/19 20:58	1
Trichloroethene	ND		0.19	0.032	ug/m3			11/05/19 20:58	1
Trichlorofluoromethane	1.3		0.45	0.062	ug/m3			11/05/19 20:58	1
Vinyl chloride	ND		0.10	0.066	ug/m3			11/05/19 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					11/05/19 20:58	1

Method: D1946 - Fixed Gases (Helium)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Helium	ND		0.16	0.16	% v/v			11/08/19 12:03	1.57

Eurofins TestAmerica, New York City Ser
 47-32 32nd Place
 Suite 1141
 Long Island City, NY 11101-2425
 phone 347.507.0579 fax

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

140-17207 Chain of Custody

Client Contact Information				Client Project Manager: Bruce W. Ahrens				Samples Collected By: Rob Arnold / Albina Redzepagic										COC No: 1 of 1 COCs				
Company Name: Arcadis U.S., Inc				Phone: (585) 662 4034														TALS Project #				
Address: 295 Woodcliff Drive				Email: bruce.ahrens@arcadis.com														For Lab Use Only: Walk-in Client: Lab Sampling:				
City/State/Zip: Fairport/ NY/ 14450				Site Contact: Albina Redzepagic														Job / SDG No.:				
Phone: (585) 662 4034				Tel/Fax 212-386-4651														(See below for Add'l items)				
FAX: (585) 365 4198				Analysis Turnaround Time																		
Project Name: Con Edison - East 11th Street				Standard (Specify): 40 TOT																		
Site/Location: E. 11th Street - Jacob Riis				Rush (Specify):																		
P O # 30005328																						
Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
JR-1223-IA-1	11/01/19	7:30	11/01/19	14:59	-28	-4	11938	3400785	X						X							
JR-1223-IA-2		7:23		14:55	-30	-6	11515	09872	X						X							
JR-1223-IA-3		7:26		14:58	-30	-6	10140	10685	X						X							
JR-1223-IA-4		7:20		15:32	-30	-5	10301	09978	X						X							
AA110119		7:48		15:03	-30	-6	10049	09672	X						X							
DUP-110119					-30	-4	11549	11676	X						X							
<p>Received @ ambient, 1 box, Fed exp 4/11/19 8:15 647C No. Cytotall 11/19 seal RW 11/21/19</p>																						
<p>Special Instructions/QC Requirements & Comments: Plus Helium and attached list of analytes (Appendix C)</p>																						
Samples Shipped by: <i>ARC</i>				Date / Time: 4/11/19 16:11				Samples Received by: <i>ARC</i>														
Samples Relinquished by:				Date / Time:				Received by: <i>ARC</i>														
Relinquished by:				Date / Time:				Received by: <i>ARC</i>														
Lab Use Only: <i>ARC</i>				Date / Time:				Condition: <i>6 cans, 6 flows, 6cc</i>														

APPENDIX E

Photographic Logs – Indoor Air Monitoring Locations



PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 1

Description:

JR-170-IA-2 in north
storage area

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 2

Description:

JR-170-IA-2 in northern
storage area

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 3

Description:
JR-170-IA-3 in cabinet
room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019



Photograph: 4

Description:
JR-170-IA-3 in cabinet
room

**Location: Building
170**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 5

Description:
JR-178-IA-3 in meter
room

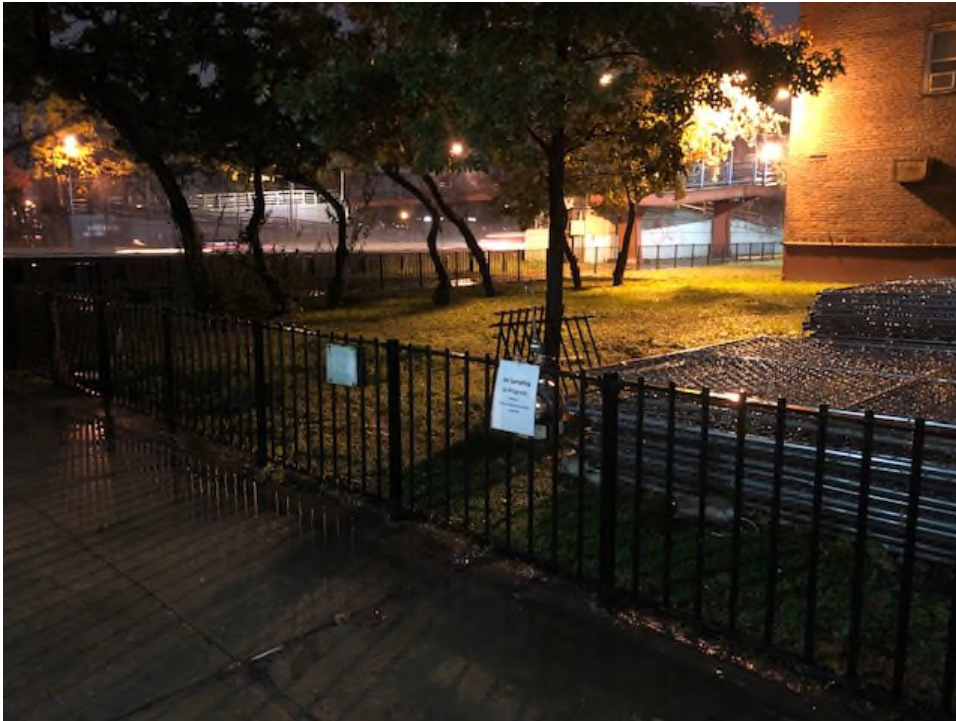
**Location: Building
178**

Photograph taken by:
Rob Arnold

Date: 10/30/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



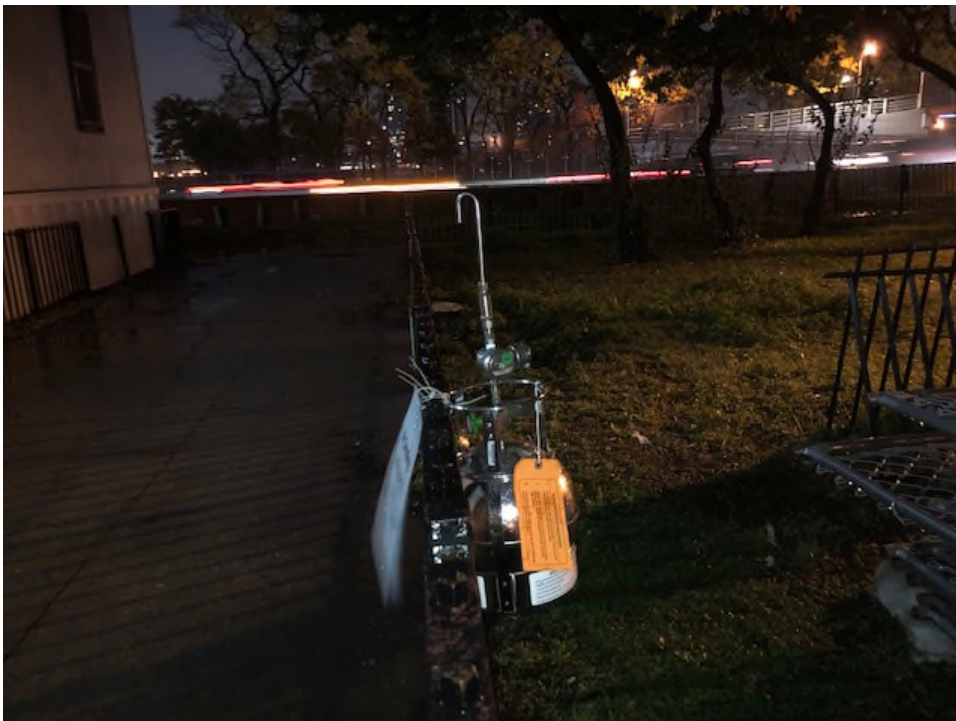
Photograph: 6

Description: Ambient
air sample setup.

Location: Building
1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 7

Description: Ambient
air sample setup.

Location: Building
1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 8

Description:
Tank room.

Location:
Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 9

Description: Tank room.

Location: Building 1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 10

Description:
Cabinet storage room.

Location: Building
1115

Photograph taken by:
Albina Redzepagic

Date: 10/31/2019



Photograph: 11

Description:
Crawl space vault on
northwest wing on
building – JR-1141-IA-3

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 12

Description:
AA-102919

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 13

Description:
AA-102919 looking
north along the west
fence to building 1141

Location: Building
1141

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edison Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 14

Description:
JR-1141-IA-1 in tank
room above sump

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 15

Description:
JR-1141-IA-2 in meter
room

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 16

Description:

JR-1141-IA-3 in crawl
space

**Location: Building
1141**

Photograph taken by:
Albina Redzepagic

Date: 10/29/2019



Photograph: 17

Description:

JR-1223-IA-1 in south
east storage room

**Location: Building
1223**

Photograph taken by:
Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 18

Description:

JR-1223-IA-3 in east
end of basement

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 19

Description:

JR-1223-IA-2 in
northern storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

PHOTOGRAPH LOG

Consolidated Edson Company of New York, Inc.
E. 11th Street / 30005328
Manhattan NY



Photograph: 20

Description:

JR-1223-IA-2 in
northern storage area

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019



Photograph: 21

Description:

JR-1223-IA-4 and DUP-
110119 outside tank
room

**Location: Building
1223**

Photograph taken by:

Albina Redzepagic

Rob Arnold

Date: 11/1/2019

Arcadis of New York, Inc.

295 Woodcliff Drive

Third Floor

Suite 301

Fairport, New York 14450

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A decorative graphic consisting of three thin orange lines. One line is horizontal, extending across the width of the page. Two other lines are diagonal, starting from the bottom left and extending towards the top right, intersecting the horizontal line.