

Department of Environmental Conservation

LAPP INSULATOR SITE

INDOOR AIR MONITORING REPORT SEPTEMBER 2019

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LAPP INSULATOR LEROY (T) SITE NO. 819017 GENESEE COUNTY, NY

Prepared for: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 625 Broadway, Albany, New York

Basil Seggos, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION Remedial Bureau E

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> > November 2019

INDOOR AIR MONITORING REPORT SEPTEMBER 2019

LAPP INSULATOR SITE 130 GILBERT STREET LEROY, GENESEE COUNTY, NEW YORK SITE ID No. 819017

Prepared For:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION REMEDIAL BUREAU E WORK ASSIGNMENT NO. D007622-11.2

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LIST OF ACRONYMS AND ABBREVIATIONS

%	percent
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
1,1,1-TCA	1,1,1-trichloroethane
ASP	Analytical Services Protocol
COC	contaminants of concern
CVOC	chlorinated volatile organic compounds
cy	cubic yards
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Approval Program
ENSR	ENSR Consulting and Engineering
FS	Feasibility Study
FHW	former hazardous waste storage building
Inc.	Incorporated
Lapp Insulator	Lapp Insulator Group
Malcolm Pirnie	Malcolm Pirnie, Inc.
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	perchloroethene, aka tetrachloroethene or tetrachloroethylene or
	perchloroethylene
PCore	PCore Electric Co. Inc.
PDF	portable document format
PID	photoionization detector
ppb	parts per billion
QC	quality control
RI	Remedial Investigation
ROD	Record of Decision
SC	Site Characterization
SDS	Safety Data Sheets
SSD	sub-slab depressurization
SVI	soil vapor intrusion
TCE	trichloroethene, aka trichloroethylene
TestAmerica	TestAmerica Laboratories, Inc.
$\mu g/m^3$	micrograms per cubic meter
UHP	ultra high purity
URS	URS Corporation – New York
VOCs	volatile organic compounds
WA	Work Assignment

1.0 INTRODUCTION

This Indoor Air Monitoring Report has been prepared to summarize the field activities and analytical results for the September 2019 indoor air monitoring performed by URS Corporation – New York (URS) at the Lapp Insulator site (Site ID No. 819017) located in LeRoy, New York (Figure 1), hereinafter referred to as the Site. The New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) requested that URS conduct indoor air monitoring in Buildings B-31, B-35, B-37, and the PCore Building over the course of eight quarterly events starting with December 2017. The data collected during these monitoring events will be used to evaluate the effectiveness of the mitigation measures and gain a better understanding of the nature and extent of indoor air contamination at the Site. The September 2019 indoor air sampling event was the fifth quarterly sampling event performed by URS.

URS performed soil vapor intrusion (SVI) sampling on May 10-12, 2017 and August 30-31, 2017; and indoor air sampling on December 18-19, 2017 in five buildings at the Site. After each sampling event, a *Soil Vapor Intrusion Data Summary Report* documenting the results and recommendations was prepared and submitted to NYSDEC. The third *Soil Vapor Intrusion Data Summary Report* (URS, January 2018), completed after the December 2017 sampling and data review was finished, was a comprehensive report that included a discussion of all three sampling events.

One of the five buildings sampled is currently occupied by PCore Electric Co. Inc. (PCore) herein identified as the "PCore Building". The other buildings, occupied by Lapp Insulator Group (Lapp Insulator) are a former hazardous waste storage building (FHW), a storage and shipment building (B-31), and two active manufacturing buildings (B-35 and B-37). Building locations are shown on Figure 2.

Based on the results of the SVI sampling events, the NYSDOH, NYSDEC and URS concluded that mitigation was necessary to address the SVI in three buildings at the Site: Buildings B-31, B-35, and the PCore Building. The mitigation involved the installation sub-slab depressurization (SSD) systems to prevent the flow of soil vapors from beneath the building sub-slabs into the buildings.

In July 2018, a Pilot Study was conducted in order to gather information necessary to design the SSD systems. Also during this time, Four SSD systems were installed in Building B-31: two just outside an office located in the northeastern corner of the building, and two in a workshop area in the southwestern end of the building. Each system consists of a 4-inch diameter polyvinyl chloride (PVC) riser installed approximately 1 foot beneath the concrete floor slab. The PVC riser is connected to a fan, which then

discharges via 4-inch PVC piping to the outside of the building. The intent of the systems is to create a pressure differential that limits the potential for sub-slab vapors to enter the breathing space within the building. In September 2018, URS submitted a *Soil Vapor Mitigation Design Report* to NYSDEC, documenting the installation of the SSD fans in Building B-31; the findings of the Pilot Study; and providing an overview of the proposed SVI mitigation design for Building B-35 and the PCore Building. The SSD system construction for Building B-35 and the PCore Building began in March 2019 and was completed in May 2019.

An indoor air monitoring event was originally scheduled to take place in March 2019. Since the SSD systems are expected to impact indoor air quality, NYSDEC requested that the March 2019 sampling event be removed from the indoor air sampling program. The June 2019 sampling event included the first indoor air samples that have been collected since the SSD systems in Building B-35 and the PCore Building began operation in May 2019. This September 2019 sampling event represents the second round of indoor air sampling to take place since the SSD systems were installed in Building B-35 and the PCore Building and the fourth round of indoor air sampling to take place since the SSD systems were installed in Building B-31.

This report presents the findings of the fifth quarterly indoor air monitoring event conducted on September 26 and 27, 2019.

1.1 <u>Site Description</u>

The Site is located in the County of Genesee, New York and is identified as Block 1 and Lot 90 on the Town of LeRoy Tax Map # 29. The Site is situated on an approximately 66-acre area bounded by Munson Street to the north, Oatka Creek to the south and east, and B&O Railroad tracks to the west. The general layout of the Site and key features are illustrated on Figure 2.

The Site is located within the flat-lying Erie-Ontario Lowlands. The Site topography is nearly flat, dipping slightly from west to east toward Oatka Creek. The maximum relief of the Site is a drop in elevation of approximately 30 feet at the steep rock bank at the adjacent Oatka Creek.

Overburden soil thickness at the Site ranges from approximately 10 to 30 feet. Fill material was used to level topographically low areas and provide support to the steep bank of Oatka Creek along the eastern edge of the property. Where present, fill is the uppermost overburden unit and was encountered up to 30 feet thick in the South fill area. The fill material consists primarily of anthropogenic materials including brick, coal, cinders, and fragments of porcelain from insulators mixed with disturbed natural soil material of clay, silt, sand, and gravel. The native overburden material at the Site is glacial till which is

composed of unsorted silt with clay, sand, and gravel. This till is deposited directly on the underlying bedrock and, where not covered by fill, is present at the ground surface.

Bedrock was measured at the Site at depths ranging from 10 to 30 feet below grade. A total of four distinct bedrock units were encountered during rock well drilling at the Site. These are, in descending order: Levanna Shale, Stafford Limestone, Oatka Creek Shale, and Onondaga Limestone. Levanna Shale is present directly beneath overburden deposits at the Site. Levanna Shale is a light olive gray shale near the top and weathered fissile dark gray or black shale near the base. Levanna Shale was observed along the eastern border of the Site at the western bank of Oatka Creek where it is exposed along a steep cliff approximately 30 feet high. This rock unit also underlies the creek by an estimated additional 50 feet. The thickness of this unit beneath the Site ranges from 50 to 70 feet.

Groundwater at the Site flows generally to the east toward Oatka Creek on the eastern side of the Site, and towards the west on the western side of the Site. The creek is a discharge for the overburden, shallow rock, and intermediate zones. Groundwater in the deepest rock zone flows downward.

1.2 <u>Site History</u>

Since 1917 Lapp Insulator has been actively engaged in the manufacture and production of ceramic insulators and electrical transformer bushings. Lapp Insulator discontinued manufacture of bushings in 2004. The bushings portion of the business is leased to PCore electronics, which continues to operate in the buildings on-site on the east side of Gilbert Street. Historical records indicate that oils, petroleum based products, and chlorinated solvents including: 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), and tetrachloroethene (PCE), were stored and utilized for production at the Site, primarily on the east side of Gilbert Street. Further, two areas of the Site, referred to as the Northeast and South fill areas have been used for the disposal of crushed ceramic insulators.

In 1996, the Department first listed the Site as a Class 2a site in the Registry of Inactive Hazardous Waste Disposal Sites in New York (the Registry). Class 2a was a temporary classification assigned to a site that had inadequate and/or insufficient data for inclusion in any of the other classifications. In 1998, the Department listed the Site as a Class 2 site in the Registry. A Class 2 site is a site where hazardous waste presents a significant threat to the public health or the environment and action is required.

Investigations conducted by ENSR Consulting and Engineering (ENSR) to assess environmental conditions at the Site included: Phase I Environmental Due Diligence Examination in 1991, Phase II Environmental Due Diligence Examination in 1992, Phase I Site Characterization (SC) in 1994, and Supplemental Site Soil Characterization in 1995.

Results indicated that the groundwater and soil were impacted with Site-related volatile organic compounds (VOCs).

A remedial measure was attempted by Lapp Insulator without Department concurrence or involvement in December 1995. The remedial measure consisted of a soil vapor extraction system with a single extraction well placed in each of three areas of concern. The system was deemed ineffective at adequately addressing the contamination at the Site and was ultimately shut down in September 1999.

An Order on Consent between Lapp Insulator and the Department was signed in 2001. Remedial Investigation (RI) work activities required under the 2001 Order on Consent are presented in the November 2000 RI/Feasibility Study (FS) Work Plan. RI work was performed by Malcolm Pirnie, Inc. of Orchard Park, NY (Malcolm Pirnie).

The RI work activities began in October 2001 with site characterization tasks, installation of an upgradient deep bedrock monitoring well, and sampling of several media including soil, groundwater, soil vapor, and surface water and sediments. Results of the Phase I RI were submitted to the Department in the form of a Technical Memorandum in November 2002.

A second phase of the RI was performed to confirm and expand upon the information obtained from the initial phase of investigation. The Phase II field program was performed in July and August 2003 and included installation of bedrock monitoring wells, and sampling of several media including sediment, surface water, water seep, and groundwater. The 2005 RI Report (Malcolm Pirnie, 2005) provided the results from both phases of RI at the Site. The March 2007 FS Report (Malcolm Pirnie, 2007) evaluated remedial alternatives. The selected remedy was subsequently presented in the 2009 Record of Decision (ROD). In March 2014, an amended ROD was issued by the NYSDEC.

Soil Vapor Investigation

As part of the 2001 RI, Gore-Sorber passive soil gas modules were installed in sixty-nine locations approximately 2 to 3 feet below grade throughout the Site. The soil vapor samples collected were analyzed for VOCs. A key finding of the passive soil vapor sampling was that there were areas of high concentrations of TCE and 1,1,1-TCA in soil vapor along the south and southeastern portions of the Site.

Summer 2014 Remediation

During the summer of 2014, a remedial action was conducted at the Site to address chlorinated VOC (CVOC) contamination. The contaminants of concern (COC) for this Site are 1,1,1-TCA, TCE, PCE, and their breakdown products. The remedial action included the excavation, mechanical screening and backfill of approximately 15,000 cubic yards (cy) of soil from two areas of the Site: approximately 1,500 cy to a maximum depth of 12 feet from an area immediately to the south of the PCore Building; and about

13,500 cy to a maximum depth of 14 feet from an open field in an area near the southern end of the property just southwest of the FHW Building. Additionally, two groundwater injection wells with laterals were installed just to the southeast of the PCore Building. The Final Engineering Report, which discusses the Site activities and results was prepared by URS and submitted as a draft to NYSDEC in March 2017.

May, August and December 2017 SVI Investigations

URS performed the first of three SVI investigations on May 10-12, 2017. Sample locations were identified based on the findings of the passive soil vapor sampling conducted as part of the RI. The results of the RI concluded that the highest levels of total targeted CVOCs: 1,1,1-TCA and TCE, were found in the southern/southeastern portion of the Site along the southeastern sides of the FHW Building, Building B-31, Building B-35 and the western portion of the PCore Building.

In an August 1, 2017 email the NYSDOH recommended collecting SVI samples in Building B-37. URS, in consultation with the NYSDEC Project Manager also recommended sampling of the eastern half of the PCore Building to evaluate if the soil vapor plume beneath the PCore Building extended to the eastern portion of the building.

After the NYSDOH reviewed the results of the August 2017 SVI sampling event, the NYSDEC instructed URS to recollect indoor air samples in the PCore Building laboratory (location P-B-IA-05) and Building B-37 at location IA-03. An indoor air sample was also requested in the office located at the southeast corner of Building B-31. Refer to Figure 3 for locations of the office and laboratory.

The third SVI investigation was conducted by URS in December 2017. Indoor air samples were collected in Buildings B-31, B-37, and the PCore Building.

All of the sampling was conducted following procedures outlined in *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, Final, (NYSDOH, October 2006). Detailed sketches of the individual buildings, key building features, and sampling locations are included with the Questionnaires and Inventory forms which were presented in the *Lapp Insulator Site SVI Data Summary Report* (URS, January 2018).

Based on the results of these investigations, mitigation was recommended in Buildings B-31, B-35, and the PCore Building.

June, September and December 2018 Indoor Air Monitoring

The first three quarterly indoor air monitoring events were conducted on June 17-18, 2018, September 18-19, 2018 and December 13-14, 2018. These monitoring events consisted of indoor air and outdoor air sampling; no sub-slab samples were collected. The buildings sampled during these events included Buildings B-31, B-35, B-37, and the PCore Building. The activities conducted during these indoor air monitoring events, along with discussions of the results, are presented in the *Indoor Air Monitoring Report June 2018* (URS February 2019), *Indoor Air Monitoring Report September 2018* (URS February 2019), *Indoor Air Monitoring Report December 2018* (URS February 2019).

July 2018 SSD Installation

Four SSD systems were installed in Building B-31: two just outside an office located in the northeastern corner of the building, and two in a workshop area in the southwestern end of the building. Each system consists of a 3-inch diameter polyvinyl chloride (PVC) riser installed approximately 1 foot beneath the concrete floor slab. The PVC riser is connected to a fan, which then discharges via 3-inch PVC piping to the outside of the building. In September 2018, URS submitted a *Soil Vapor Mitigation Design Report* to NYSDEC, documenting the installation of the SSD fans and the activities associated with the Pilot Test.

February 2019 Interim Indoor Air Sampling

The polymer laboratory in the northeastern portion of the PCore Building, one of the target remediation area for the project, was not available for sampling during the December 2018 monitoring event. NYSDEC requested that URS collect an additional sample from the laboratory to determine whether the installation of the proposed SSD System in the laboratory should be completed prior to mobilization for the construction of the other SSD systems proposed for the site. The data for this sampling event was discussed in the Indoor Air Monitoring Report for the June 2019 sampling event. It was determined based on the data that the construction of the polymer laboratory SSD system was not urgent and could be installed concurrently with the other SSD systems.

2019 SSD Installation

During the spring of 2019, URS installed four SSD systems: two systems are installed in the PCore Building; one system is installed in Building B-35; and one radon fan-style system is installed in the polymer laboratory of the PCore Building. Each system consists of a 4-inch diameter PVC riser installed approximately 1 foot beneath the concrete floor slab. The PVC risers are connected to a regenerative blower inside a shed constructed on the outside of their respective building. From there, the blower discharges vapors to the air via a stack with an outlet at least one foot above the roofline. The PVC riser for the PCore laboratory system is connected to a radon-style fan, which then discharges via 4-inch PVC piping to the outside of the building. URS is documenting the construction of these remediation systems in a *Construction Completion Report* which will supplement the Final Engineering Report associated with the site.

June 2019 Indoor Air Sampling

In June 2019, URS resumed the quarterly indoor air sampling program. Indoor air and outdoor air samples were collected on June 20-21, 2019; no sub-slab samples were collected. The buildings sampled during the June 2019 event included Buildings B-31, B-35, B-37, and the PCore Building. The activities conducted during this indoor air monitoring event, along with discussions of the results, are discussed in the *Indoor Air Monitoring Report June 2019* (URS August 2019),

2.0 FIELD INVESTIGATION ACTIVITIES

The fifth quarterly indoor air monitoring event was conducted on September 26 and 27, 2019. This monitoring event consisted of indoor air and outdoor air sampling; no sub-slab samples were collected. The buildings sampled during this event included Buildings B-31, B-35, B-37, and the PCore Building. Sampling consisted of the following work tasks:

- On September 26, 2019 URS initiated the indoor air sampling in the four buildings. Procedures for the collection of the indoor air and outdoor air samples are discussed in Section 2.2.
- URS returned to the Site on September 27, 2019 to retrieve the samples for submittal to the NYSDEC call-out laboratory for analysis.

2.1 **Questionnaire and Inventory**

An inventory of containers was performed prior to sampling in each area. A RAE Systems miniRAE-3000 PID was used to screen indoor air and identify potential sources of VOCs from chemicals prior to collecting the air samples. The questionnaires and inventory forms from previous sampling events were updated as necessary. The updated Questionnaire and Inventory forms are in Appendix A.

2.2 Indoor Air Investigation

A total of eleven indoor air samples (plus one field duplicate) and one outdoor air sample were collected during the September 2019 indoor air monitoring event. The indoor air sampling locations were generally in the same locations as previous sampling events. The indoor air locations were placed in the breathing zone (approximately 3 to 5 feet above the floor), central to the building and away from the outside walls, appliances, machinery, and apparent penetrations. Sampling locations are presented on Figure 3, and photographs of the in-place Summa Canisters are included in Appendix B.

Sampling was performed in accordance with the procedures outlined in the *Generic Field Activity Plan* (URS, 2010b). The samples were collected using laboratory evacuated 6-liter Summa® canisters with 24-hour laboratory calibrated flow regulators. Upon opening the canister valve, the initial vacuum pressure was read from the built-in gauge on the flow controller and recorded onto the Indoor Air Quality Survey and Questionnaire form. Approximately 24 hours after sampling commenced, each canister vacuum was recorded on the Indoor Air Quality Survey and Questionnaire form and the valve was then closed. One indoor air duplicate sample (FD092719) was collected in Building B-35, at location B35-IA-01. One outdoor ambient air sample (OA 2) was collected. The outdoor air sample was collected from an unoccupied area to the east of the Site (southeast of the PCore Building).

2.2.1 Sample Analysis

The samples were delivered under chain of custody to NYSDEC's call-out laboratory, TestAmerica Laboratories, Inc. (TestAmerica) located in Amherst, NY and then shipped by TestAmerica to their facility located in Knoxville, Tennessee. TestAmerica Knoxville is a NYSDOH ELAP certified laboratory for the analysis of VOCs by USEPA Method TO-15 (Table 1). All indoor and outdoor air samples were analyzed for the VOCs shown on Table 1 to a minimum detection limit of 1.0 microgram per cubic meter (μ g/m³) with the exception of alcohols and ketones. VOCs trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), carbon tetrachloride, and vinyl chloride in all indoor and outdoor air samples were analyzed with a minimum target detection limit of 0.2 μ g/m³.

3.0 **RESULTS OF THE INVESTIGATION**

3.1 Data Validation and Data Usability Summary Report

The data package submitted by the laboratory was equivalent to the NYSDEC's Analytical Services Protocol (ASP) Category B Deliverable requirements. A Data Usability Summary Report (DUSR) was prepared for the sampling event following the guidelines provided in NYSDEC's Department of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B, Guidance for Data Deliverables and the Development of Data Usability Summary Reports,* May 2010. The complete validated analytical results and Form 1s are provided in the DUSR which is included in Appendix C.

It should be noted that the results for sample B35-IA-01 were rejected in its entirety because the laboratory determined that the Summa canister contained residue from a previous use, rendering the data unusable. A field duplicate (FD 092719) was collected at location B35-IA-01, therefore only the field duplicate results are used for this location.

3.2 Soil Vapor Intrusion Investigation Sampling Results

To determine whether mitigation or monitoring are necessary, or whether no further action is required, soil vapor analytical data are compared to NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006. In May 2017, NYSDOH issued updated decision matrixes within this guidance. The SVI results for the samples collected from May through August 2017 from the Lapp Insulator site are presented in Table 2 with color-coded decision matrix recommendations.

The current indoor air monitoring program is intended to monitor VOC concentrations in indoor air and to evaluate SSD system effectiveness. Therefore the decision matrix was not used for evaluation of the data collected since the December 2017 sampling event. The December 2017 through September 2019 results were compared to Air Guideline Values Derived by the NYSDOH (NYSDOH, October 2006, Updated September 2013 and August 2015).

A summary of detected VOCs in the indoor air and outdoor air samples collected from December 2017 through September 2019 is presented in Table 3. Figure 4 shows all of the indoor and outdoor air sampling results since the May 2017 SVI sampling event. The results of the most recent (September 2019) monitoring event are discussed below with a focus on the eight NYSDOH decision matrix compounds. Charts showing the total VOC concentrations at each sampling location accompany the discussions below.

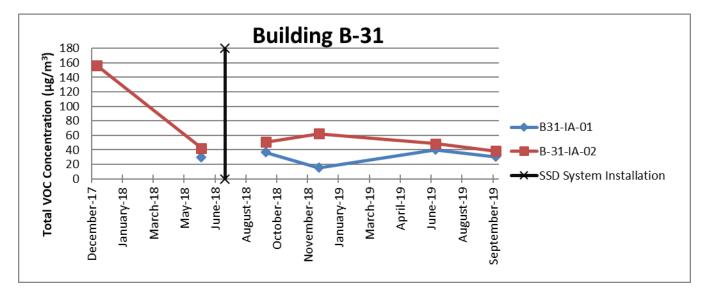
Carbon tetrachloride was detected in the indoor air and outdoor air at similar concentrations; therefore, results for carbon tetrachloride are not discussed below.

BUILDING B-31

The indoor air results show the following for the two samples collected from Building B-31:

- TCE was detected at 0.47 μ g/m³ in the sample collected from the workshop area at the northwestern end of the building (sample B31-IA-01) and was detected at 0.29 μ g/m³ in the front office (B31-IA-02). These indoor air concentrations are lower than previous measurements of 0.50 μ g/m³ and 0.45 μ g/m³, respectively. The September 2019 outdoor air concentration of TCE was higher than the indoor air concentration, at 0.53 μ g/m³. All September 2019 TCE detections were below the Air Guideline value of 2 μ g/m³.
- Methylene chloride, 1,1,1-TCA; 1,1-DCE; cis-1,2-DCE; and PCE were not detected in Building B-31 indoor air during the September 2019 indoor air monitoring event.
- Various non-decision matrix compounds were detected in the two samples collected from Building B-31 during the September 2019 indoor air monitoring event, ranging from 0.3 μg/m³ (benzene) to 10 μg/m³ (ethanol). Since the SSD system has been installed, the nondecision matrix compounds have ranged in concentration from 0.3 μg/m³ (benzene) to 42 μg/m³ (ethanol).

The chart below presents total VOC concentrations detected in the samples collected in Building B-31 over the course of the monitoring program.

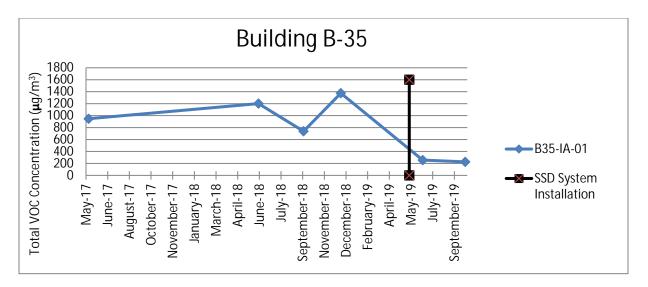


J:\Projects\60414764_Lapp_SVI\500_Deliverables\502_Indoor Air Monitoring Reports\September 27 2019\report.hw.0819017.2019-11-14.Lapp_Insulator_Site_SVI_Data_Summary_Report_September2019.docx As shown in the above chart, the total VOC concentrations in B31-IA-01 and B31-IA-02 have exhibited some minor fluctuations but have remained relatively consistent since June 2018. Variations in total VOC concentrations are expected and can be attributed to several factors including changes in weather, opening and closing of doors and windows, changes in heating and air conditioning usage, and changes in levels of activity within the facility. This is the fourth round of indoor air samples that have been collected following the installation of the SSD systems at Building B-31.

BUILDING B-35

The indoor air results show the following for one sample collected from Building B-35. The data discussed here is from the field duplicate (sample FD 092719) collected at location B-35-I-01; parent sample B-35-IA-01 results were rejected.

- The concentration of TCE was 0.36 µg/m³ during the September 2019 monitoring event. TCE was not detected during the June 2019 monitoring event. Previous concentrations of TCE ranged from 1.3 µg/m³ to 2.9 µg/m³. The September 2019 outdoor air concentration of TCE was higher than the indoor air concentration, at 0.53 µg/m³. The September 2019 TCE detection was below the Air Guideline value of 2 µg/m³.
- 1,1,1-TCA, 1,1-DCE, cis-1,2-DCE, methylene chloride, PCE and vinyl chloride were not detected in the sample collected from Building B-35 during the September 2019 monitoring event.
- Various non-decision matrix compounds were detected in the indoor air sample collected from Building B-35 during the September 2019 indoor air monitoring event, ranging from $0.52 \ \mu g/m^3$ (benzene) to 91 $\mu g/m^3$ (1,3-dichlorobenzene). 1,3-Dichlorobenzene, ethanol and tert-butyl alcohol have been typically detected at higher concentrations than other compounds; concentrations of these compounds during the September 2019 monitoring event were similar to previous monitoring events. Historically, the non-decision matrix compounds have ranged in concentration from 0.37 $\mu g/m^3$ (benzene) to 950 $\mu g/m^3$ (1,3-dichlorobenzene).



As shown in the above chart, the total VOC concentration in B-35-IA-01 increased slightly from May 2017 to December 2018, and then decreased sharply from December 2018 to June 2019 mostly due to lower concentrations of 1,3-dichlorobenzene and ethanol. The concentrations of 1,3-dichlorobenzene peaked in December 2018 and have ranged from 38 mg/m³ (September 2018) to 950 mg/m³ (December 2018). The total VOC concentrations detected in B-35-IA-01 in June and September 2019 were similar. Variations in total VOC concentrations are expected and can be attributed to several factors including changes in weather, opening and closing of doors and windows, changes in heating and air conditioning usage, and changes in levels of activity within the facility.

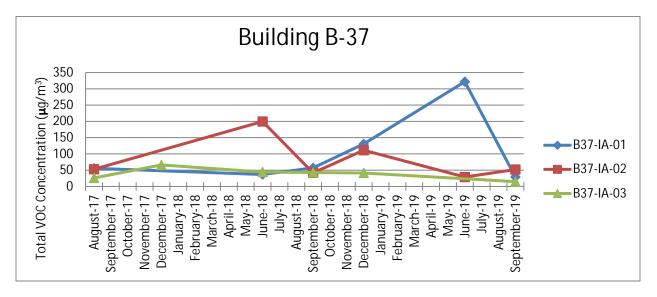
Building B-37

The indoor air results show the following for the three samples collected from Building B-37:

- TCE was detected in all three samples collected in Building B-37 at concentrations of 0.62 μ g/m³, 0.97 μ g/m³ and 0.20 μ g/m³. TCE was previously detected at concentrations ranging from 0.23 μ g/m³ to 2.7 μ g/m³ in Building B-37 indoor air samples. The September 2019 outdoor air concentration of TCE was higher than the indoor air concentration, at 0.53 μ g/m³. None of the three September 2019 TCE detections were above the Air Guideline value of 2 μ g/m³.
- Methylene chloride was detected in one of the three samples collected during the September 2019 monitoring event at 3.9 µg/m³. Prior to September 2019, methylene chloride had been detected in every indoor air sample collected from Building B-37 from August 2017 through June 2019, with concentrations ranging from 0.86 µg/m³ to 95 µg/m³. The outdoor air sample concentration of methylene chloride was 1.1 µg/m³ in September

2019. None of the September 2019 methylene chloride detections exceeded the Air Guideline value of $60 \,\mu g/m^3$.

- 1,1,1-TCA, 1,1-DCE, cis-1,2-DCE, PCE and vinyl chloride were not detected in any of the three samples collected in Building B-37 during the September 2019 monitoring event.
- Various non-decision matrix compounds were detected in the samples collected during the September 2019 indoor air monitoring event at concentrations ranging from 0.40 μg/m³ (benzene) to 34 μg/m³ (ethanol). Historically, the non-decision matrix compounds have ranged in concentration from 0.26 μg/m³ (benzene) to 79 μg/m³ (ethanol).



As shown in the above chart, the total VOC concentrations in B-37-IA-03 have been relatively consistent. The total VOC concentrations in B-37-IA-01 increased from September 2018 through June 2019 primarily due to an increase in ethanol concentration during December 2018, and then a methylene chloride concentration spike during June 2019. The concentrations of these two compounds decreased during the September 2019 monitoring event, resulting in a decrease in the total VOC concentration. The total VOC concentration at B-37-IA-02 has fluctuated since August 2017, mostly due to varying concentrations of ethanol. Although variability is not unusual, the location of the summa canister for sample B37-IA-02 has had to be adjusted during each event due to operations within the facility. Variations in total VOC concentrations are expected and can be attributed to several factors including changes in weather, opening and closing of doors and windows, changes in heating and air conditioning usage, and changes in levels of activity within the facility.

PCore Building

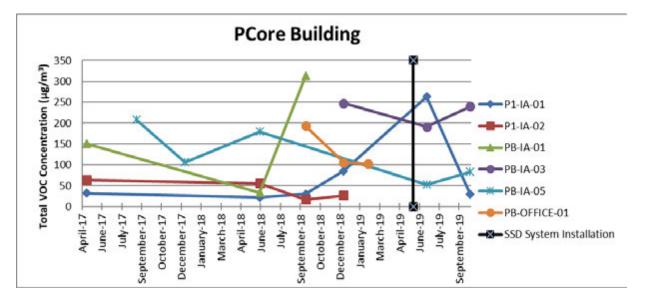
In September 2019, two samples (P1-IA-01 and P1-IA-02) were collected from the portion of the building that is above ground, identified herein as the first floor. The remaining samples (PB-IA-01, PB-IA-03 and PB-IA-05) were collected from the lower level, referred to herein as the basement. During the September 2019 monitoring event, a sample was not collected from location PB-IA-02 due to its proximity to sampling location PB-IA-01. A sample was most recently collected from location PB-Office in February 2019.

The indoor air results show the following for the five samples collected from the PCore Building in September 2019:

- 1,1,1-TCA was detected in four out of the five samples in the PCore Building during the September 2019 sampling event, at concentrations between 0.69 μg/m³ (PB-IA-05) and 1.6 μg/m³ (PB-IA-01 and PB-IA-03). With the exception of P1-IA-02 during the September 2018 monitoring event and four samples during the June 2019 monitoring event, 1,1,1-TCA has been detected consistently at every location in the PCore Building with concentrations between 1.6 μg/m³ (P1-IA-01) and 69 μg/m³ (PB-IA-05).
- TCE was detected in four out of the five samples in the PCore Building during the September 2019 monitoring event at concentrations ranging from 0.53 μ g/m³ (P1-IA-02) to 0.83 μ g/m³ (PB-IA-05). The September 2019 outdoor air concentration of TCE was 0.53 μ g/m³. Previously, TCE concentrations ranged from 0.2 μ g/m³ (P1-IA-02) to 25 μ g/m³ (PB-IA-05). Until the September 2019 monitoring event, TCE has been detected in every indoor air sample collected from the PCore Building. None of the September 2019 samples exceeded the Air Guideline value of 2 μ g/m³.
- PCE was detected in four out of the five samples collected from the PCore building during the September 2019 monitoring event at concentrations ranging from 0.57 µg/m³ (P1-IA-02) to 1.5 µg/m³ (PB-IA-05). The September 2019 outdoor air concentration of PCE was 1.0 µg/m³. Except for one unexpectedly high concentration of 210 µg/m³ at PB-IA-01 during the September 2018 event, previous samples have exhibited PCE concentrations ranging from 0.73 µg/m³ (P1-IA-02 and P1-IA-02) to 9.7 µg/m³ (PB-IA-03). None of the September 2019 samples exceeded the Air Guideline value of 30 µg/m³.
- Methylene chloride was detected in two out of the five samples collected from the PCore Building during the September 2019 monitoring event at concentrations ranging from 5.3

 μ g/m³ (PB-IA-01) to 68 μ g/m³ (PB-IA-03). The September 2019 outdoor air concentration of methylene chloride was 1.1 μ g/m³. Except for B37-IA-02 in June 2018 (95 μ g/m³), PB-IA-03 in December 2018 (30 μ g/m³), and PB-IA-01 in June 2019 (64 μ g/m³), the concentration of methylene chloride had generally been consistent, ranging from 1.0 μ g/m³ to 10 μ g/m³. The methylene chloride concentration in sample PB-IA-03 (68 μ g/m³) exceeded the Air Guideline value of 60 μ g/m³.

- Cis-1,2-DCE was detected in two out of the five samples collected from the PCore Building during the September 2019 monitoring event at concentrations of 0.26 µg/m³ (PB-IA-03) and 0.17 µg/m³ (PB-IA-05). Historically, detected concentrations of cis-1,2-DCE have ranged from 0.16 µg/m³ (P1-IA-02) to 15 µg/m³ (PB-IA-05).
- 1,1-DCE and vinyl chloride were not detected in any of the PCore Building samples collected during the September 2019 monitoring event.
- Various non-decision matrix compounds were detected in the samples collected during the September 2019 indoor air monitoring event at concentrations ranging from 0.35 μg/m³ (o-xylene) to 170 μg/m³ (toluene). The historical non-decision matrix compounds concentrations for indoor air samples collected from the PCore Building have ranged from 0.27 μg/m³ (benzene) to 680 μg/m³ (ethanol).



As shown in the above chart, the total VOC concentrations at P1-IA-01 and P1-IA-02 had been generally consistent since June 2018, then increased during the June 2019 monitoring event before decreasing again during the September 2019 monitoring event. The increases observed in June 2019 are

mostly attributed to sharp increases in concentrations of toluene and methyl ethyl ketone. The total VOC concentration at PB-IA-01 has fluctuated over the course of the monitoring program, primarily due to: a sharp decrease in the 1,1,1-TCA concentration in June 2018, a sharp increase in the PCE concentration in September 2018; and a sharp increase in the methylene chloride concentration in June 2019. The total VOC concentrations at PB-IA-03 and PB-OFFICE have been consistent. The total VOC concentration at PB-IA-05 has exhibited an overall downward trend over the course of the monitoring program, with the lowest total VOC concentration being observed most recently in September 2019. The variations in total VOC concentrations are expected and can be attributed to several factors including changes in weather, opening and closing of doors and windows, changes in heating and air conditioning usage, and changes in levels of activity within the facility.

3.3 <u>Results of the Inventory</u>

The analytical results were compared against the product inventories (Appendix A). The product inventories were initially completed during the SVI investigation work in 2017; the inventories are updated as needed during each monitoring event.

In the office in Building B-31 (where sample B-31-IA-02 is collected), only air fresheners were present. The background PID measurement in the office was 0 ppm, and the PID measured 0 ppm when held next to the air fresheners.

During the September 2019 monitoring event, the inventory for the workshop area of Building B-31 (where sample B-31-IA-01 is collected) was updated. The background PID reading was 0 ppm. In addition to the chemicals observed during the June 2019 monitoring event (spray paints, lubricants and paint stripper with PID readings of 3 ppm or less), paint stripper, PlioBond, and enamel were observed. The maximum PID reading observed was the PlioBond at 4 ppm. PlioBond does not contain chlorinated VOCs according to the Safety Data Sheet (included in Appendix A).

In Building B-35 during the September 2019 monitoring event, the peak VOC background reading collected using the PID was approximately 2 ppm. There were no notable changes to the product inventory for Building B-35. The building regularly contains various drums containing oil, naphthalene and acetone in the manufacturing area, away from where the samples were collected.

The Building B-37 product inventory was updated during the September 2019 monitoring event. During the June 2019 monitoring event, three waste oil drums were observed near the location of sample B-37-IA-01; these drums were not present during the September 2019 monitoring event. Because of an elevated methylene chloride concentration observed in sampling B-37-IA-01 during the June 2019 monitoring event, NYSDEC requested that URS enlarge the search area for the product inventory. URS examined a nearby painting room, where methylene chloride may be commonly used. There were several cabinets containing various paints and mineral spirits in this room, but there were no PID readings observed. The background PID reading was also 0 ppm in this area. No other potential sources of methylene chloride, or any other VOCs, were identified near this sample location.

The product inventories for the other two sample locations in Building B-37 (B-37-IA-02 and B-37-IA-03) were revisited, but there were no changes necessary. Background readings in both locations were 0 ppm.

Products found throughout the PCore Building during previous site visits have included various cleaning products, one oxygen tank and one acetylene tank, and drums containing various resins and waste oil. During the September 2019 monitoring event, the product inventories were updated as follows:

- Sample location P1-IA-01: URS updated the product inventory in the vicinity of sample P1-IA-01 during the September 2019 monitoring event. The background PID reading was 0 ppm. There were no notable changes to the product inventory. During the June 2019 site visit, a drum storage room door was open; the room contains approximately 25 waste oil drums, 25 drums containing various epoxy resins, and eight pails of butyl alcohol. The drum storage room door was closed during the September 2019 monitoring event.
- Sample location P1-IA-02: URS updated the product inventory in the vicinity of sample P1-IA-02 during the September 2019 monitoring event. The background PID reading was 0 ppm. There were two 260-gallon (approximately) totes containing hydraulic oil being stored next to the sample location; there were no PID readings observed around these totes. This sample location is near a loading dock with frequent truck and forklift traffic.
- Sample location PB-IA-01: Background PID reading was 3 ppm. There were no products observed near this sampling location. This area sees occasional forklift traffic.
- Sample location PB-IA-03: During the September 2019 monitoring event, the sample location was moved to a nearby area to facilitate PCore operations. This location is in an active manufacturing area. During the September 2019 monitoring event, the inventory was updated to reflect the new sampling area. The background PID reading was 0 ppm.

A chemical cabinet containing various spray paints, oil cleaners, and brake cleaners was found. The PID readings within this cabinet ranged from 0 ppm to 10 ppm.

• Sample location PB-IA-05: During the September 2019 monitoring event, the background PID reading was 0 ppm in the polymer laboratory of the PCore Building (Sample location PB-IA-05). There are certain products stored inside a flammables cabinet in the laboratory that are known to exhibit high PID readings; PCore personnel typically remove these products prior to the sampling. However, for the September 2019 monitoring event, these products were not removed. There were no PID readings observed in or around the flammable's cabinet during the September 2019 monitoring event. The product inventory was revisited in the laboratory, and there were no notable changes to the product inventory (the contents of the flammables cabinet have not changed since the cabinet was last inventoried in February 2019). It should be noted that a sump pit in the floor of the laboratory, which was exposed to bare subsoil, was sealed during the construction of the SSD system in this location in May 2019.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The sub-slab vapor concentrations of 1,1,1-TCA and/or TCE detected beneath Buildings B-31, B-35, B-37 and the PCore Building in 2017 prompted the 'mitigate' determination. One exception to this is in the PCore Laboratory (PB-IA-05), where the indoor air concentration of TCE rather than the subslab concentration prompted the 'mitigate' determination. Mitigation of Building B-31 was completed in July 2018, and mitigation of Building B-35 and the PCore Building were completed in May 2019.

In September 2019 there was only one Air Guideline value exceedance. The exceedance was for methylene chloride in sample PB-IA-03 in the manufacturing area of the PCore Building. There were no compounds found at concentrations exceeding the Recommended Immediate Action Level during the September 2019 monitoring event.

Overall, concentrations of compounds found in the sub-slab soil vapor samples continue to decrease in the indoor air samples being collected. This decrease may be an early indicator that the SSD systems are effectively limiting vapor intrusion. However, several factors can impact indoor air concentrations (i.e. time of year, weather, use of doors/windows, use of various chemicals, etc.). This is the second indoor air monitoring event that has been conducted since the construction of the SSD systems in Building B-35 and the PCore Building.

In Building B-31, the indoor air concentrations of compounds found in the sub-slab soil vapor samples have continued to decrease since the SSD systems were installed in July 2018. This trend indicates that the SSD systems in Building B-31 are effectively limiting vapor intrusion.

URS will continue to perform quarterly indoor air sampling in accordance with the current scope of work. The ongoing indoor air monitoring program will collect the data necessary to evaluate the effectiveness of the SSD systems. The sixth indoor air monitoring event is expected to take place in December 2019.

5.0 **REFERENCES**

- New York State Department of Health. 2006. *Guidance for Evaluating Soil Vapor Intrusion in the State* of New York. Final. October.
- New York State Department of Environmental Conservation (NYSDEC). 2009. Record of Decision for the Lapp Insulator Site. March.
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- Malcolm Pirnie, Inc. 2005. Remedial Investigation Report. September.
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- URS Corporation. 2019. Soil Vapor Intrusion Data Summary Report September 2018. February
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- URS Corporation. 2019. Soil Vapor Intrusion Data Summary Report June 2019. August

TABLES

TABLE 1 SUMMARY OF PARAMETERS ANALYZED IN INDOOR AND OUTDOOR AIR SAMPLES BY USEPA METHODS TO-15

1,1,1-Trichloroethane (1,1,1-TCA) 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) 1,1,2-Trichloroethane *1,1-Dichloroethane (1,1-DCA) *1,1-Dichloroethane (1,1-DCE) 1,2,4-Trichlorobenzene 1,2-Dibromoethane (Ethylene dibromide) 1,2-Dichlorobenzene *1,2-Dichloroethane (1,2-DCA) *cis-1,2-Dichloroethene (cis-1,2-DCE) *trans-1,2-Dichloroethene (trans-1,2-DCE) 1,2-Dichloropropane 1,2-Dichlorotetrafluoroethane 1,3,5-Trimethylbenzene (Mesitylene) 1,3-Dichlorobenzene cis-1,3-Dichloropropene trans-1,3-Dichloropropene 1,4-Dichlorobenzene	Bromoform Bromomethane Carbon tetrachloride # Chlorobenzene *Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane Dichlorodifluoromethane (Freon 12) Ethanol Ethylbenzene Hexachlorobutadiene Hexane Methyl ethyl ketone (2-Butanone) Methyl tert-butyl ether Methyl ether Methylene chloride Styrene tert-Butyl alcohol *Tetrachloroethene (PCE)
1,3-Dichlorobenzene	Methylene chloride
trans-1,3-Dichloropropene	tert-Butyl alcohol
1,4-Dioxane 2,2,4-Trimethylpentane	Toluene *Trichloroethene (TCE) #
4-Methyl-2-pentanone Benzene	Trichlorofluoromethane (Freon 11) *Vinyl chloride (VC) #
Benzyl chloride Bromodichloromethane	m&p Xylene o Xylene

USEPA Method TO-15, VOCs in Air Collected in SUMMA[®] Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS): USEPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, January 1999.

- * Tetrachloroethene, trichloroethene and breakdown products.
- # The minimum reporting limit in all indoor and outdoor air samples for trichloroethene, cis-1,2-dichlroethene, 1,1-dichloroethene, carbon tetrachloride and vinyl chloride is 0.2 microgram per cubic meter ($\mu g/m^3$); the reporting limits for all other compounds are at least 1 $\mu g/m^3$ (except for ketones).

TABLE 2 SOIL VAPOR INTRUSION ANALYTICAL RESULTS LAPP INSULATOR SITE

	Location	OUTDOOI		BUILDING B31	I	BUILDING B3	5			BUILDI	NG B37							PC	ORE BUILDI	NG				
Lo	cation ID	OUTDO	OR AIR ¹	B31-SS-01		B35-IA/SS-01		B37-IA	/SS-01	B37-IA	VSS-02	B37-IA	/SS-03	P1-IA	/SS-01	P1-IA/	/SS-02	PB-IA	/SS-01	PB-IA	/SS-02		PB-IA/SS-05	;
Field S	ample ID	OA-01	OA-02	B31-SS-01	B35-IA-01	051017-FD- 001	B35-SS-01	IA-01	B37-SS-01	IA-02	B37-SS-02	B37-IA-03	B37-SS-03	P-1-IA-01	P-1-SS-01	P-1-IA-02	P-1-SS-02	P-B-IA-01	P-B-SS-01	P-B-IA-02	P-B-SS-02	P-B-IA-05	083017-FD- 002	PB-SS-05
Matrix		Outdoor	Outdoor	Sub-slab	Indoor Air	Indoor Air	Sub-slab	Indoor Air	Sub-slab	Indoor Air	Sub-slab	Indoor Air	Sub-slab	Indoor Air	Sub-slab	Indoor Air	Sub-slab	Indoor Air	Sub-slab	Indoor Air	Sub-slab	Indoor Air	Indoor Air	Sub-slab
Date	Sampled	Air 05/12/17	Alf 08/31/17	Vapor 05/11/17	05/11/17	05/11/17	Vapor 05/11/17	08/31/17	Vapor 08/31/17	08/31/17	Vapor 08/31/17	08/31/17	Vapor 08/31/17	05/11/17	Vapor 05/11/17	05/11/17	Vapor 05/11/17	05/11/17	Vapor 05/11/17	05/11/17	Vapor 05/11/17	08/31/17	08/31/17	Vapor 08/31/17
Parameter	Units					Field Duplicate																	Field Duplicate	
1,1,1-Trichloroethane	UG/M3			8400	< 0.33	16	660	< 0.065	180	< 0.065	< 0.065	< 0.065	< 0.65	2.9	170	10	590,000 D	24	520	36	14,000	42	46	51
1,1-Dichloroethene	UG/M3															< 0.056	6,600	0.34	< 11	0.52	180	1.2	1.3	< 0.056
1,2-Dichloroethene (cis)	UG/M3															< 0.095	3,100	2.1	< 18	2.4	280	5.1	5.6	1.6
Carbon tetrachloride	UG/M3	0.39	0.42	< 17	< 0.47	< 1.0	< 79	0.47	< 11	0.46	0.41	0.42	< 0.94	0.39	2.5	0.39	< 230	0.38	< 18	0.35	< 17	0.39	0.47	0.57
Methylene chloride	UG/M3	0.95	1.2	< 82	< 2.3	< 4.8	< 380	1.3	< 52	1.9	1.3	2.1	< 4.5	1.0	< 4.5	1.2	< 1100	1.8	< 87	1.6	< 79	2.5	3.3	3.1
Tetrachloroethene	UG/M3			< 20	< 0.54	< 1.2	<90			4.5	2.1	8.9	< 1.1	< 0.11	42	1.1	< 270	4.0	< 21	3.1	< 19	3.9	4.1	18
Trichloroethene	UG/M3			2300	2.1	5.3	28000	< 0.075	3500	0.23	9.0	< 0.075	190	0.69	410	1.9	92,000	18	5,100	20	4,600	11	12	30
1,1-Dichloroethane	UG/M3															0.39		0.75		0.98		4.0	4.3	4.3
1,2,4-Trimethylbenzene	UG/M3							0.78		1.1	1.7	0.67	9.7									4.4	4.0	7.4
1,2-Dichloroethane	UG/M3															0.32						0.73	0.78	
1,2-Dichloroethene (trans)	UG/M3										2.4													
1,2-Dichloropropane	UG/M3																							
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3										0.74		4.4									1.9	1.7	4.0
1,3-Dichlorobenzene	UG/M3				200	160																		
1,4-Dichlorobenzene	UG/M3																							0.52
1,4-Dioxane	UG/M3	0.94																						3.7
2,2,4-Trimethylpentane	UG/M3									1.0														
4-Methyl-2-pentanone	UG/M3	6.8	1.1					1.2		2.3	7.8		15	1.1		1.1		1.2		2.3		1.5	0.96	22
Benzene	UG/M3							0.30		0.28	8.1		15					0.28				0.31	0.32	42
Chloroethane	UG/M3																							0.27
Chloroform	UG/M3																							0.60
Chloromethane	UG/M3	1.1	0.96					1.2		1.1		1.0		1.2		1.1		1.2		1.1		1.3	1.3	0.86
Cyclohexane	UG/M3			150							44		270											57
Dichlorodifluoromethane	UG/M3	2.5	2.3		2.4			2.6		2.5	2.4	2.3		2.3		2.3		2.4		2.3		2.3	2.5	2.7
Ethanol	UG/M3	6.4			550	450		28		27	7.6	5.5		15		29		84		130		83	86	150
Ethylbenzene	UG/M3										5.1		12			0.75		0.57		0.47		1.4	1.4	24
Hexane	UG/M3			230						0.72	52		300					1.7		1.5		14	14	160
Methyl ethyl ketone (2-Butanone)	UG/M3		2.7					6.9		4.8	16	1.7	15	2.2		2.0		1.2		1.4		4.7	2.8	33
Styrene	UG/M3										1.1													1.7
tert-Butyl alcohol	UG/M3				190	140																		8.9
Toluene	UG/M3		0.54		3.5			0.69		0.89	39	0.72	59	2.5		6.5		2.2		1.9		6.3	6.4	100
Trichlorofluoromethane	UG/M3	1.5	1.3					11		3.0	2.3	2.2		1.3		1.4		1.6		1.4		3.0	3.2	3.4
m&p-Xylene	UG/M3							0.99		0.66	22	0.60	48	1.4		3.3		2.4		2.0		4.8	4.8	100
o-Xylene	UG/M3							0.37		0.35	7		16	0.44		1.0		0.75		0.62		1.2	1.2	31
Total VOCs	UG/M3	20.58	10.52	11,080.00	948.00	771.30	28,660.00	55.80	3,680.00	52.79	232.05	26.11	954.10	32.42	624.50	63.75	101,700	150.87	5,620	209.94	19,060	200.93	208.43	861.62

NYSDOH Decision Matrix Recommen Applied to sub-slab vapor and corresponding indoor air sample collected on the same date.

No further action

Identify source(s) and Resample or Mitigate Monitor

Mitigate

Notes: 1) Outdoor air samples are not included in comparisons for the decision matrix. <= Not detected, value shown is method detection limit (MDL). Empty cell = not detected.

	Location OUTDOOR UPWIND										BUILDING B31												
	L	ocatio	on ID	OUTDOOR AIR									B31-IA-01						B31-	-IA-02			
	Field	Samp	le ID	PB-OA-01	Outdoor Air-2	Outdoor Air-2	Outdoor Air-2	Outdoor Air-03	OA-01	Outdoor Air-2	B31-IA-01	B31-IA-01	B31-IA-01	B31-IA-01	B31-IA-01	B31-IA-02	B31-IA-02	B31-IA-02	FD 091918	B31-IA-01	FD121418	B31-IA-02	B-31-IA-02
		M	atrix			c	outdoor A	ir				•	Indoor Air						Indo	or Air			
	npled	12/19/17	06/07/18	09/19/18	18 12/14/18 02/08/19 06/21/19 09/27/19				06/07/18 09/19/18 12/14/18 06/21/19 09/27/19					12/19/17 06/07/18 09/19/18 09/19/18 12/14/18 12/14/18						3 06/21/19 09/27/19			
Parameter	Units Limit Lim 1 2																		Field Duplicate		Field Duplicate		
1,1,1-Trichloroethane (1,1,1-TCA)	UG/M ³	-	-													0.74							
1,1-Dichloroethene (1,1-DCE)	UG/M ³	-	-																				
cis1-,2-Dichloroethene (cis-1,2-DCE)	UG/M ³	-	-																				
Carbon tetrachloride	UG/M ³	-	-	0.48	0.46	0.45	0.47	0.51	0.42	0.42	0.48	0.62		0.45	0.45	0.49		0.54	0.57	0.52	0.53	0.44	0.42
Methylene chloride	UG/M ³	60	-	0.94	1.3	2.9	2.3		1.3	1.1	1.4	3.6	2.5	1.3		76	2.6	3.6	5.4	1.9	1.4	0.92	
Tetrachloroethene (PCE)	UG/M ³	30	300			1.0				1.0							26						
Trichloroethene (TCE)	UG/M ³	2	20			0.85				0.53	4.3	0.87		0.50	0.47	1.9		0.98	0.95	0.23	0.23	0.45	0.29
Vinyl chloride	UG/M ³	-	-					0.13															
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M ³	-	-																				
1,1,2-Trichloroethane (1,1,2-TCA)	UG/M ³	-	-																				
1,1-Dichloroethane (1,1-DCA)	UG/M ³	-	-																				
1,2,4-Trichlorobenzene	UG/M ³	-	-												1.4								
1,2,4-Trimethylbenzene	UG/M ³													0.46				0.49	0.45				
1,2-Dichloroethane (1,2-DCA)	UG/M ³																	0.33					
trans-1,2-Dichloroethene (trans-1,2-DCE)	UG/M ³		-																				
1,2-Dichloropropane	UG/M ³	-	-											0.98		0.97				0.45	0.47	1.2	
1,3,5-Trimethylbenzene (Mesitylene)	UG/M ³	-	-																				
1,3-Dichlorobenzene	UG/M ³	-	-												1.8	1.9		0.55		1.1	1.2		1.4
cis-1,3-Dichloroproene	UG/M ³	-	-																				
1,4-Dichlorobenzene	UG/M ³	-	-																	1.0			
1,4-Dioxane	UG/M ³	-	-							1.2		4.0											
2,2,4-Trimethylpentane	UG/M ³	-	-																				
4-Methyl-2-pentanone	UG/M ³	-	-						13			1.0						1.6					
Benzene	UG/M ³	-	-	0.52			0.50	0.56			1.3	0.99		1.2	0.83	0.61		0.55	0.51	0.88	1.5	0.48	0.30
Bromoform	UG/M ³	-	-																				
Chlorobenzene	UG/M ³	-	-																				
Chloroethane	UG/M ³																						
Chloroform	UG/M ³	-	-						1			1.2		l				l				l	
Chloromethane	UG/M ³	-	-	1.3	1.3	1.2	1.1	1.2	0.93	1.4	1.1	1.7	1.2	1.4	0.96	1.6	1.2	1.6	1.2	1.2	1.5	1.3	1.2
Cyclohexane	UG/M ³	-	-												2.4	0.82	0.77	1.6	1.5	0.79	0.87	1.7	7.5
Dichlorodifluoromethane	UG/M ³	-	-	2.9	0.95	1.0	2.3	0.80	1.30	0.80	1.0	2.6	2.7	1.2	1.1	2.9	0.98	2.7	2.8	2.5	2.5	1.2	0.99
Ethanol	UG/M ³	-	-	5.0	4.1	11	6.5	9.4	4.7		5.8	7.2	8.1	13	7.3	58	10	15	12	27	42	18	10
Ethylbenzene	UG/M ³	-	-											0.47		0.42		0.62	0.54		0.42	0.47	
Hexachlorobutadiene	UG/M ³	-	-				1	1	1						1.4								
Hexane	UG/M ³	-	-													1.1		1.2	0.94	0.76	0.76	0.71	1.3
Methyl ethyl ketone (2-Butanone)	UG/M ³	-	-	2.3	2.9	3.3		3.2			1.1	3.2		2.0	1.8	4.3		4.0	2.9	1.4	1.3	4.1	1.6
Styrene	UG/M ³	-	-				1	1	1					0.54				1.4	1.3		0.35	1.0	0.53
tert-Butyl alcohol	UG/M ³	-	-					2.1	1		11	5.2	1	11	7.7		1	5.9	6.7	0.99	2.8	11	9.3
Toluene	UG/M ³	-	-	0.94	0.54		0.56	0.69	0.48	0.88	0.91	1.5		2.2	1.6	0.93		3.1	2.6	1.0	1.1	2.2	1.5
Trichlorofluoromethane	UG/M ³	-	-	1.7	1.1	1.4	1.2	1.4	0.99	0.91	1.1	1.6	0.90	1.1	1.0	2.0	1.0	2.5	2.5	1.3	1.9	1.3	1.3
m&p-Xylene	UG/M ³	-	-	0.39					-		0.73	0.97		1.6	0.39	1.5		1.7	1.5	0.55	1.1	1.5	0.59
o-Xylene	UG/M ³	-	-									0.41		0.66		0.42		0.68	0.59		0.44	0.57	
Total VOCs	UG/M ³	-	-	16.47	12.65	23.1	14.93	19.99	23.12	8.23	30.22	36.66	15.4	40.06	30.6	156.6	42.55	50.64	44.95	43.57	62.37	48.54	38.22
	0.011	I				- 2								. 5.00	20.0								

Guidance limits are based on Action level Guidance for Evaluation in New York State (NYSDOH, Rev. May 2017)

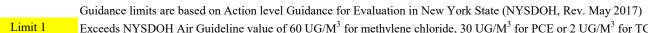
Limit 1 Limit 2

Exceeds NYSDOH Air Guideline value of 60 UG/M³ for methylene chloride, 30 UG/M³ for PCE or 2 UG/M³ for TCE. Exceeds NYSDOH Recommended Immediate Action Level 300 UG/M³ for PCE or 20 UG/M³ for TCE.

 UG/M^3 - Micrograms per cubic meter.

Empty cell - not detected above the method detection limit (MDL).

	Location BUILDING B35									BUILDING B37																
	L	ocatio	n ID	B35-IA-01									B37-IA-01					B37-IA-02			B37-IA-03					
	Field	Samp	le ID	B35-IA-01	FD 060718	B35-IA-01	B35-IA-01	B-35-IA-01	FD-062119	FD-092719	B37-IA-01	B37-IA-01	B37-IA-01	B37-IA-01	B37-IA-01	B37-IA-02	B37-IA-02	B37-IA-02	B37-IA-02	B37-IA-02	B37-IA-03	B37-IA-03	B37-IA-03	B37-IA-03	B37-IA-03	
		M	atrix	Indoor Air									Indoor Air					Indoor Air		1	-	Indoor Air				
	Da	ate Sam	npled	06/07/18	06/07/18	09/19/18	12/14/18	06/21/19	06/21/19	09/27/19	06/07/18	09/19/18	12/14/18	06/21/19	09/27/19	06/07/18	09/19/18	12/14/18	06/21/19	09/27/19	12/19/17	06/07/18	09/19/18	12/14/18	09/27/19	
Parameter	Units	Limit 1	Limit 2		Field Duplicate				Field Duplicate	Field Duplicate																
1,1,1-Trichloroethane (1,1,1-TCA)	UG/M ³	-	-	0.57	0.55		0.86						0.64			0.69		0.88			0.71					
1,1-Dichloroethene (1,1-DCE)	UG/M ³	-	-																		<u> </u>			<u> </u>		
cis1-,2-Dichloroethene (cis-1,2-DCE)	UG/M ³	-	-										0.30													
Carbon tetrachloride	UG/M ³	-	-	0.54	0.49	0.65	0.48		0.45	0.44	0.46	0.60	0.60	0.42	0.41	0.45	0.55	0.84	0.44	0.4	0.44	0.47	0.58	0.49	0.44	
Methylene chloride	UG/M ³	60	-	0.80	0.84	1.8	1.8	11			1.3	5.4	4.7	270		95	5.1	5.2	1.7	3.9	0.86	2.2	5.4	5.1		
Tetrachloroethene (PCE)	UG/M ³	30	300	0.63		0.65							15			33	4.8	12				17	3.3			
Trichloroethene (TCE)	UG/M ³	2	20	2.4	2.4	1.3	2.9			0.36	0.23	0.37	2.7	0.80	0.62	1.1	0.55	1.3	0.43	0.97	0.24			1.2	0.2	
Vinyl chloride	UG/M ³	-	-				0.15																			
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M ³	-	-			0.63						0.65									T			Γ		
1,1,2-Trichloroethane (1,1,2-TCA)	UG/M ³	-	-			Ī		Ì	Ī	Ī		Ì	Ī		1		Ì		Î	1	1	Î	İ.	1		
1,1-Dichloroethane (1,1-DCA)	UG/M ³	-	-															0.39								
1,2,4-Trichlorobenzene	UG/M ³	-	-																							
1,2,4-Trimethylbenzene	UG/M ³	-				0.54					3.4	2.3	5.4	3.6	1.1	1.0	2.2		4.5	4.8	6.2	0.91	2.4	1.4	0.92	
1,2-Dichloroethane (1,2-DCA)	UG/M ³	-	-								-								-	-				<u> </u>		
trans-1,2-Dichloroethene (trans-1,2-DCE)	UG/M ³	-	-																							
1,2-Dichloropropane	UG/M ³	-	-																							
1,3,5-Trimethylbenzene (Mesitylene)	UG/M ³	-	-								1.4	0.59	1.0	1.1			0.54		1.2	1.3	1.5		0.58			
1,3-Dichlorobenzene	UG/M ³	-		330	160	38	950	84	110	91			1.1											<u> </u>		
cis-1,3-Dichloroproene	UG/M ³	-																						+		
1,4-Dichlorobenzene	UG/M ³	-																						<u> </u>		
1,4-Dioxane	UG/M ³	-																						<u> </u>		
2,2,4-Trimethylpentane	UG/M ³						1.5														0.93			<u> </u>		
4-Methyl-2-pentanone	UG/M ³			3.1	3.0	3.4	1.7		1.5	0.88			1.0			0.82			0.97		0.00	10		1.2		
Benzene	UG/M ³	-		0.1	0.0	0.37	0.96		0.41	0.52		0.33	1.0	0.90		0.39	0.33	0.86	0.01		1.5	10	0.26	0.72	0.40	
Bromoform	UG/M ³	-	-			0.01	0.00		0.41	0.02		0.00	1.1	0.00		0.00	0.00	0.00			1.0		0.20	0.72	0.40	
		-																						┣───		
Chlorobenzene	UG/M ³	-	-																					┿───	<u> </u>	
Chloroethane Chloroform	UG/M ³	-	-																		╢────	0.69	0.45	╂────	0.45	
Chloroform	UG/M ³	-	· ·	1.0	10	1.4	0.00		10	10	10	10	10	10	0.07	10	0.07	10		0.00	4.0		0.45	4.0	0.45	
Chloromethane	UG/M ³	-	-	1.0	1.0	1.1	0.86		1.3	1.0	1.0	1.0	1.2	1.0	0.97	1.2	0.87	1.2	1.1	0.99	1.6	1.3	1.1	1.0	0.89	
	UG/M ³	-	· ·		0.01	0.7	4-		4.2	0.07	0.07				0.07		67			0.00	1.3	0.07		+		
Dichlorodifluoromethane	UG/M ³	-	<u> </u>	1.0	0.94	2.7	1.5		1.3	0.85	0.97	3.1	2.8	1.2	0.97	1.0	2.7	2.5	1.3	0.93	2.6	0.97	2.9	1.0	1.0	
Ethanol	UG/M ³	-	•	670	440	120	350		60	75	7.5	14	79	18	7.1	49	15	81	12	34	32	4.3	4.4	17	6.2	
Ethylbenzene	UG/M ³	-	-	0.55	0.51	0.49	0.72			1.1	1.1	0.39		1.4			0.47		0.37	<u> </u>	0.66		0.54	—	 	
Hexachlorobutadiene	UG/M ³	-	-																		╢────			+-	 	
Hexane	UG/M ³	-	-									3.5	1.1	3.5	0.82	6.8	0.71	0.92		 	4.7		ļ	0.90	└─── ┃	
Methyl ethyl ketone (2-Butanone)	UG/M ³	-	-	5.3	2.9	3.3	1.5		2.3			7.3	4.8	1.8	10	1.3	1.7	2.0	1.2	1.8	2.6	2.2	2.5	6.2	1.1	
Styrene	UG/M ³	-	-			0.45																		\vdash		
tert-Butyl alcohol	UG/M ³	-	-	180	120	87	52	84	75	43														1.3		
Toluene	UG/M ³	-	-	1.4	1.5	1.7	2.4		1.1	1.6	3.2	8.9	1.6	6.4	3.5	2.5	2.0	0.52	0.74	0.85	3.0	1.8	13	1.2	0.89	
Trichlorofluoromethane	UG/M ³	-	-	1.1	1.1	1.6	1.1		0.99	0.96	4.8	6.6	4.8	2.2	2.3	2.6	2.2	1.7	1.1	1.2	2.1	2.0	3.0	2.0	1.6	
m&p-Xylene	UG/M ³	-	-	2.1	2.1	1.6	3.5		0.94	7.3	8.5	1.5	1.3	7.4	1.0	2.1	1.3		1.3	0.69	2.2	0.47	1.6	0.69	0.67	
o-Xylene	UG/M ³	-	-	0.80	0.73	0.66	1.1		0.39	2.3	2.9	0.59	0.51	2.2	0.41	0.66	0.61		0.65		0.95		0.72	Γ		
Total VOCs	UG/M ³	-	-	1201.29	738.06	267.94	1375.03	179	255.68	226.31	36.76	57.12	130.65	321.92	29.2	199.61	41.63	111.31	29	51.83	66.09	44.31	42.73	41.4	14.76	



Exceeds NYSDOH Air Guideline value of 60 UG/M³ for methylene chloride, 30 UG/M³ for PCE or 2 UG/M³ for TCE.

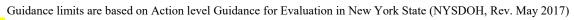
Exceeds NYSDOH Recommended Immediate Action Level 300 UG/M³ for PCE or 20 UG/M³ for TCE.

 UG/M^3 - Micrograms per cubic meter.

Limit 2

Empty cell - not detected above the method detection limit (MDL).

								PCC	ORE BUIL	DING							<u> </u>				
	1	ocatio	n ID		P1-IA-01 P1-IA-02 PB-IA-01													Ī	PB-IA-02		
											1					1			1	1	
	Field	Samp	Ie ID	P1-IA-01	P1-IA-01	P1-IA-01	P1-IA-01	P1-IA-01	P1-IA-02	P1-IA-02	P1-IA-02	P1-IA-02	P1-IA-02	PB-IA-01	PB-IA-01	PB-IA-01	PB-IA-01	PB-IA-02	PB-IA-02	PB-IA-02	
	Matrix					Indoor Air		•		•	Indoor Air					or Air			Indoor Air		
	Da	ate Sam		06/07/18	09/19/18	12/14/18	06/21/19	09/27/19	06/07/18	09/19/18	12/14/18 06/21/19		09/27/19	06/07/18	09/19/18	06/21/19	09/27/19	06/07/18	09/19/18	12/14/18	
Parameter	Units	Limit 1	Limit 2																		
1,1,1-Trichloroethane (1,1,1-TCA)	UG/M ³	-	-	1.6	4.6	13			12		3.7	1.5	1.0	4.8	14		1.6	17	16	21	
1,1-Dichloroethene (1,1-DCE)	UG/M ³	-	-			0.18									0.33			0.25	0.25	0.35	
cis1-,2-Dichloroethene (cis-1,2-DCE)	UG/M ³	-	-						0.16		0.20			0.35	1.1			1.1	1.1	0.99	
Carbon tetrachloride	UG/M ³	-	-	0.47	0.45	0.55	0.42	0.46	0.48	0.43	0.44	0.36	0.44	0.48	0.43	0.43	0.47	0.49	0.50	0.55	
Methylene chloride	UG/M ³	60	-	1.5	2.3	2.1	2.7		7.0	1.3	1.7	10		1.2	2.8	64	5.3	1.2	1.5	3.0	
Tetrachloroethene (PCE)	UG/M ³	30	300	0.75					0.73			0.93	0.57	2.2	210		1.2	1.3	2.2	4.6	
Trichloroethene (TCE)	UG/M ³	2	20	0.68	1.0	1.7	0.23		2.6	0.20	1.7	0.92	0.53	3.4	13	1.1	0.78	14	12	10	
Vinyl chloride	UG/M ³	-	-																		
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M ³	-	-								1	1			1				1		
1,1,2-Trichloroethane (1,1,2-TCA)	UG/M ³	-	-												1.4						
1,1-Dichloroethane (1,1-DCA)	UG/M ³	-	-						0.39						0.49		1	0.64	0.48	0.54	
1,2,4-Trichlorobenzene	UG/M ³	-	-																		
1,2,4-Trimethylbenzene	UG/M ³	-	-				4.2					12									
1,2-Dichloroethane (1,2-DCA)	UG/M ³	-	-	-																	
trans-1,2-Dichloroethene (trans-1,2-DCE)	UG/M ³	-	-					4.4					74				6.8				
1,2-Dichloropropane	UG/M ³	-	-				0.43														
1,3,5-Trimethylbenzene (Mesitylene)	UG/M ³	-					1.1					3.4									
1,3-Dichlorobenzene	UG/M ³								-			0.1									
cis-1,3-Dichloroproene	UG/M ³								-						0.47						
1,4-Dichlorobenzene	UG/M ³	-													0.47						
1,4-Dioxane	UG/M ³																				
2,2,4-Trimethylpentane	UG/M ³	-													23						
4-Methyl-2-pentanone	UG/M ³	-													1.9						
Benzene	UG/M ³	-				0.61			0.29		0.73				1.5				0.27	0.60	
Bromoform	UG/M ³	-	-			0.01			0.23		0.75				4.8				0.21	0.00	
Chlorobenzene	UG/M ³														0.71						
Chloroethane	UG/M ³	-	-												0.71						
Chloroform	UG/M ³	-	-					<u> </u>		<u> </u>						<u> </u>				<u>├</u> ──┤	
Chloromethane	UG/M ³	-	-	1.1	1.3	1.1	1.1	0.88	1.1	1.3	0.99	1.1	0.91	1.0	1.2	1.1	1.3	0.98	1.1	1.1	
			-	1.1	1.3	1.1	1.1	0.00	<u> </u>	1.3	0.99	1.1	0.91	1.0	1.2	1.1	1.3	0.90	1.1	1.1	
Cyclohexane Dichlorodifluoromethane	UG/M ³	-	-	0.97	1.1	2.6	1.3	0.89	1.0	1.0	2.2	1.3	0.84	1.1	1.0	1.5	0.97	1.0	1 4	2.5	
	UG/M ³	-	-		1.1		1.3	0.09	1.0		7.3			1.1			11	31	1.1	2.5	
Ethanol	UG/M ³	-	-	6.2	12	11			16	7.5	1.3	10	6.0	13	23	17		31	29	20	
Ethylbenzene	UG/M ³	-	-	0.49		0.48	3.0	<u> </u>		<u> </u>		17	2.7		0.58	0.85				┣────	
Hexachlorobutadiene	UG/M ³	-	-			0.70							0.07		0.7					0.00	
Hexane	UG/M ³	-	-			0.72			<u> </u>			2.2	0.85		6.7					0.96	
Methyl ethyl ketone (2-Butanone)	UG/M ³	-	-	1.0	1.8	15	59	6.6	2.2	1.4	1.2	220	79	2.7	1.7	17	5.1	4.3	4.5	7.4	
Styrene	UG/M ³	-	-																0.46	\vdash	
tert-Butyl alcohol	UG/M ³	-	-						ļ		ļ	ļ			ļ		I		ļ		
Toluene	UG/M ³	-	-	3.5	3.3	32	160	14	10	1.6	4.6	680	170	1.6	2.5	47	9.8	1.3	7.3	14	
Trichlorofluoromethane	UG/M ³	-	-	1.1	1.4	1.2	1.0	1.1	1.3	1.3	1.0	1.1	1.0	1.2	1.5	1.3	1.1	1.1	1.4	1.1	
m&p-Xylene	UG/M ³	-	-	1.8	0.70	2.1	12	0.93	0.41	0.84	0.72	66	9.8	0.93	0.39	3	1.2	0.54	1.1	1.4	
o-Xylene	UG/M ³	-	-	0.59		0.68	4.0			0.35		20	2.7			0.88	0.44		0.41	0.48	
Total VOCs	UG/M ³	-	-	21.75	29.95	85.02	263.48	29.26	55.66	17.22	26.48	1047.81	350.34	33.96	313	155.16	47.06	76.2	80.67	90.57	



Exceeds NYSDOH Air Guideline value of 60 UG/M³ for methylene chloride, 30 UG/M³ for PCE or 2 UG/M³ for TCE.

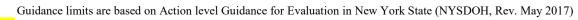
Exceeds NYSDOH Recommended Immediate Action Level 300 UG/M³ for PCE or 20 UG/M³ for TCE.

 UG/M^3 - Micrograms per cubic meter.

Limit 1 Limit 2

Empty cell - not detected above the method detection limit (MDL).

		Loca	Location PCORE BUILDING													
	L	ocatio	n ID		PB-IA-03				PB-I	A-05				PB-OFFICE		
	Field	Samp	le ID	PB-IA-03	PB-IA-03	PB-IA-03	PB-IA-05	FD-121817	PB-IA-05	PB-IA-05	PB-IA-05	PB-IA-05	PB-OFFICE- 01	PB-OFFICE- 01	PB-OFFICE	
		М	atrix		Indoor Air				Indo		Indoor Air					
	Date Sampled					09/27/19	12/19/17	12/19/17	06/07/18	02/08/19	06/21/19	09/27/19	09/19/18	12/14/18	02/08/19	
Parameter	Units	Limit 1	Limit 2					Field Duplicate								
1,1,1-Trichloroethane (1,1,1-TCA)	UG/M ³	-	-	8.7		1.6	19	19	69	38		0.69	14	17	17	
1,1-Dichloroethene (1,1-DCE)	UG/M ³	-	-	0.22			0.97	0.94	3.5	2.0			0.54	0.95	0.84	
cis1-,2-Dichloroethene (cis-1,2-DCE)	UG/M ³	-	-	0.77	0.39	0.26	6.0	6.0	15	10		0.17	1.7	6.8	4.9	
Carbon tetrachloride	UG/M ³	-	-	0.44	0.43	0.43	0.45	0.46	0.50	0.47	0.42	0.45	0.47	0.53	0.44	
Methylene chloride	UG/M ³	60	-	30	1.4	68	3.1	3.2	5.1		1.1		2.2	1.6		
Tetrachloroethene (PCE)	UG/M ³	30	300	9.7	6.0	1.3	3.7	3.6	7.7	4.7		1.5	1.3	3.0	2.9	
Trichloroethene (TCE)	UG/M ³	2	20	3.7	1.0	0.58	12	12	25	15	0.25	0.83	3.8	9.8	8.6	
Vinyl chloride	UG/M ³	-	-							0.23					0.11	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M ³	-	-													
1,1,2-Trichloroethane (1,1,2-TCA)	UG/M ³															
1,1-Dichloroethane (1,1-DCA)	UG/M ³	-	-	0.62		0.56	3.5	3.5	10	5.8			1.6	3.1	2.7	
1,2,4-Trichlorobenzene	UG/M ³													-		
1,2,4-Trimethylbenzene	UG/M ³				4.1				1.2		1.6	0.78	3.2	0.47	0.54	
1,2-Dichloroethane (1,2-DCA)	UG/M ³					0.91	0.34	0.34								
trans-1,2-Dichloroethene (trans-1,2-DCE)	UG/M ³	-	-			5.3	0.01	0.01	0.63	0.40						
1,2-Dichloropropane	UG/M ³	-	-													
1,3,5-Trimethylbenzene (Mesitylene)	UG/M ³	-	-		1.2				0.54		0.69		1.4			
1,3-Dichlorobenzene	UG/M ³	-	-													
cis-1,3-Dichloroproene	UG/M ³															
1,4-Dichlorobenzene	UG/M ³															
1,4-Dioxane	UG/M ³															
2,2,4-Trimethylpentane	UG/M ³															
4-Methyl-2-pentanone	UG/M ³			1.0	1.2	1.4							0.92			
Benzene	UG/M ³	-	_	0.59	1.2	1.7	0.45	0.44		0.53			0.31	0.57	0.55	
Bromoform	UG/M ³			0.00			0.40	0.44		0.00			0.01	0.01	0.00	
Chlorobenzene	UG/M ³															
Chloroethane	-	-							0.29							
Chloroform	UG/M ³	-	-		0.20				0.29							
	UG/M ³	-	-	1.2	0.39	0.01	1.2	10	0.94	1.4	1.0	0.82	- 1 1	1.2	1.5	
Chloromethane	UG/M ³		-	1.2	1.0	0.91	1.3	1.2	0.94	1.4	1.0	0.62	1.1	1.2	1.5	
	UG/M ³	-	-	0.5	4.0	0.00	0.0	0.0	0.00	47	4.0	0.00	1.0	0.7	1.0	
Dichlorodifluoromethane	UG/M ³	-	-	2.5	1.3	0.86	2.8	2.3	0.98	1.7	1.2	0.86	1.0	2.7	1.6	
Ethanol	UG/M ³	-	-	140	100	93	45	39	30	21	41	64	140	51	52	
Ethylbenzene	UG/M ³	-	-	0.60	1.5	0.99			0.45				0.48			
Hexachlorobutadiene	UG/M ³	-	-	4.0				0.70		2.0		0.1	4.5	4.0	10	
	UG/M ³	-	-	1.2	40			0.70	4.1	3.8		6.1	4.5	1.8	1.6	
Methyl ethyl ketone (2-Butanone)	UG/M ³	-	-	16	18	15	1.8		1.4		2.1	1.4	4.6	1.1	1.2	
Styrene	UG/M ³	-	-										0.39		 	
tert-Butyl alcohol	UG/M ³	-	-				<u> </u>						1.0			
Toluene	UG/M ³	-	-	27	44	43	2.3	2.4	3.3	1.5	1.1	2.9	3.3	1.3	2.6	
Trichlorofluoromethane	UG/M ³	•	-	1.4	1.1	1.1	1.9	1.8	2.1	1.8	2.2	1.5	3.4	2.2	1.9	
m&p-Xylene	UG/M ³	-	-	1.8	6.1	3.7	1.4	1.4	1.6	1.1	0.51	0.97	1.3	0.63	1.1	
o-Xylene	UG/M ³	-	-	0.41	2.1	1.1	0.48	0.46	0.59			0.35	0.65		0.40	
Total VOCs	UG/M ³	-	-	247.85	191.21	240	106.49	98.74	179.82	109.43	53.17	83.32	193.16	105.75	102.48	

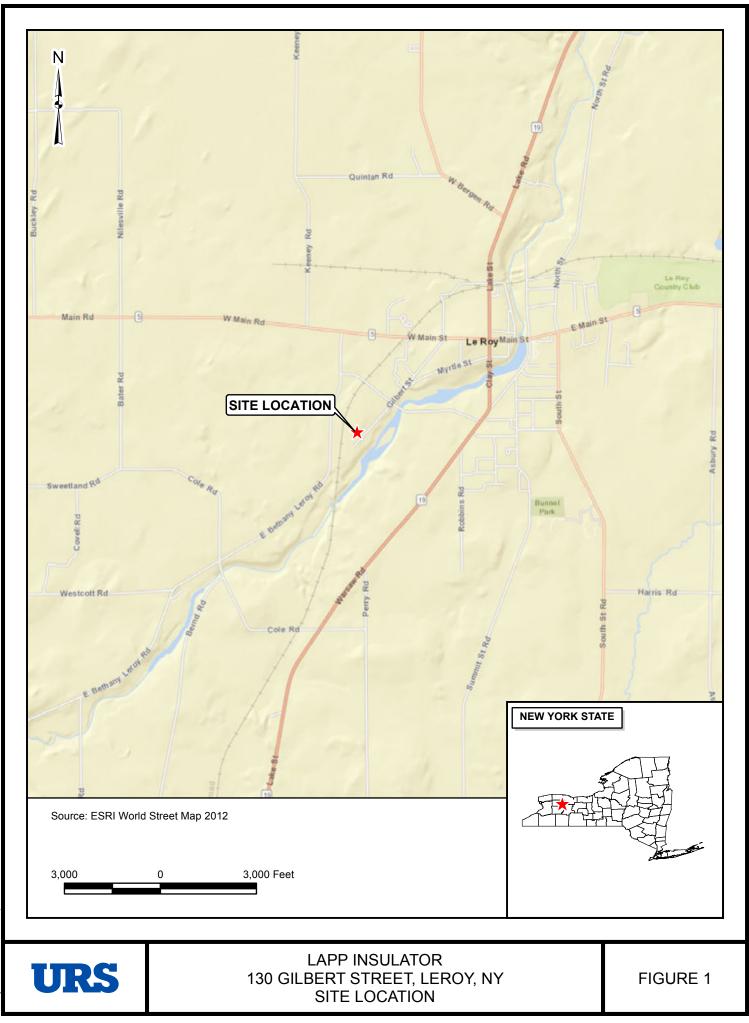


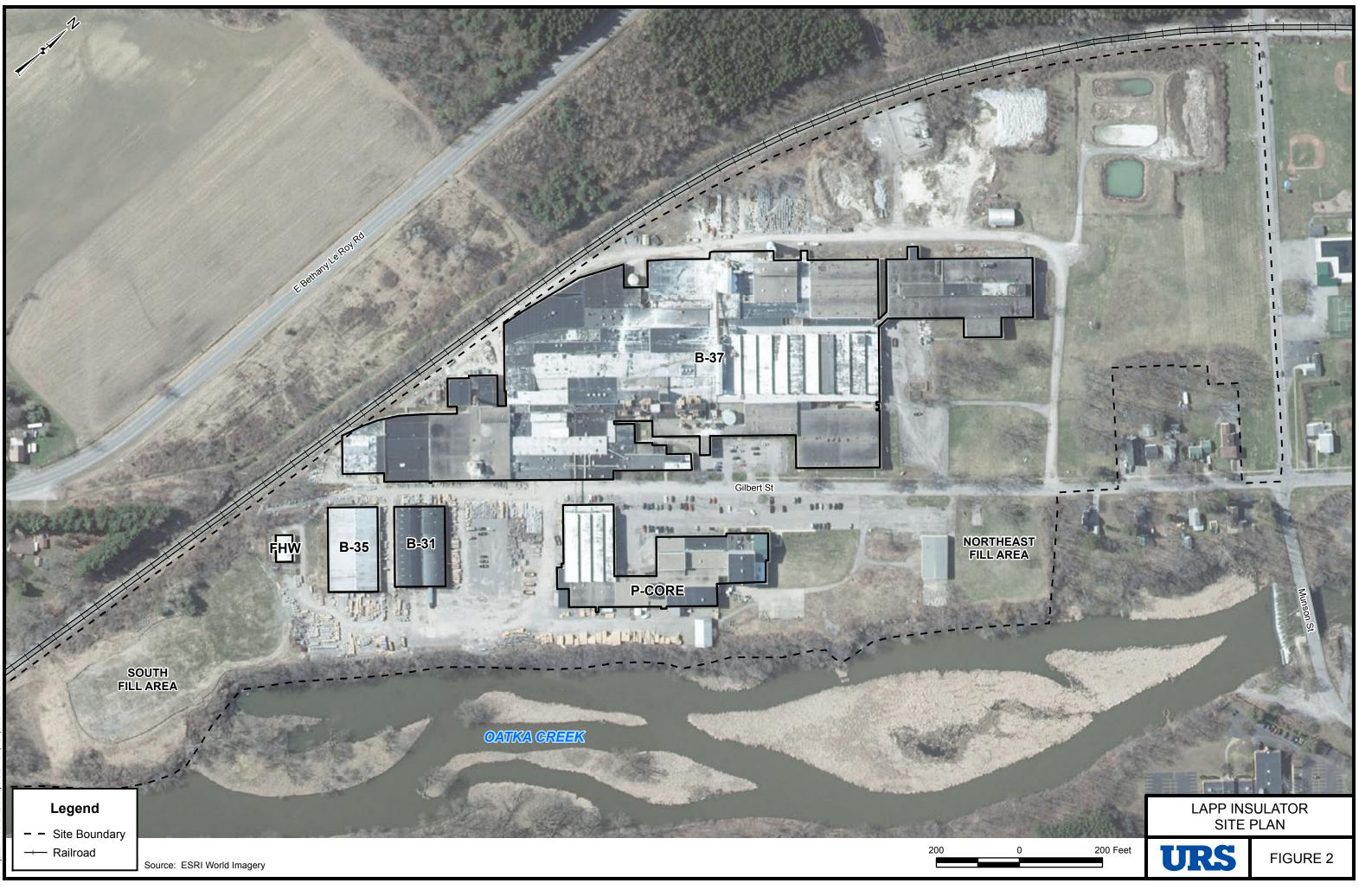
Limit 1 Limit 2

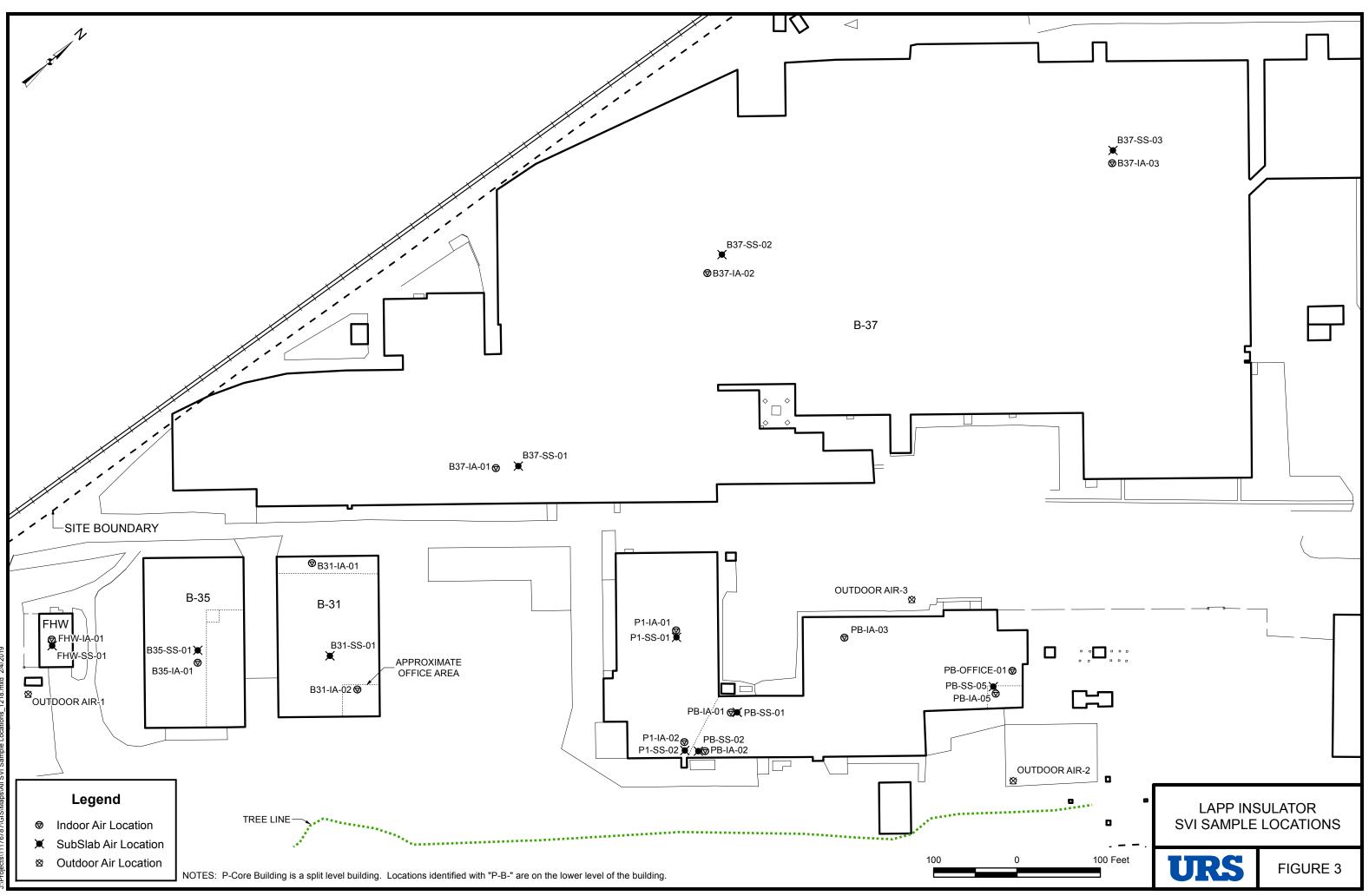
Exceeds NYSDOH Air Guideline value of 60 UG/M³ for methylene chloride, 30 UG/M³ for PCE or 2 UG/M³ for T Exceeds NYSDOH Recommended Immediate Action Level 300 UG/M³ for PCE or 20 UG/M³ for TCE. UG/M^3 - Micrograms per cubic meter. Empty cell - not detected above the method detection limit (MDL).

FIGURES

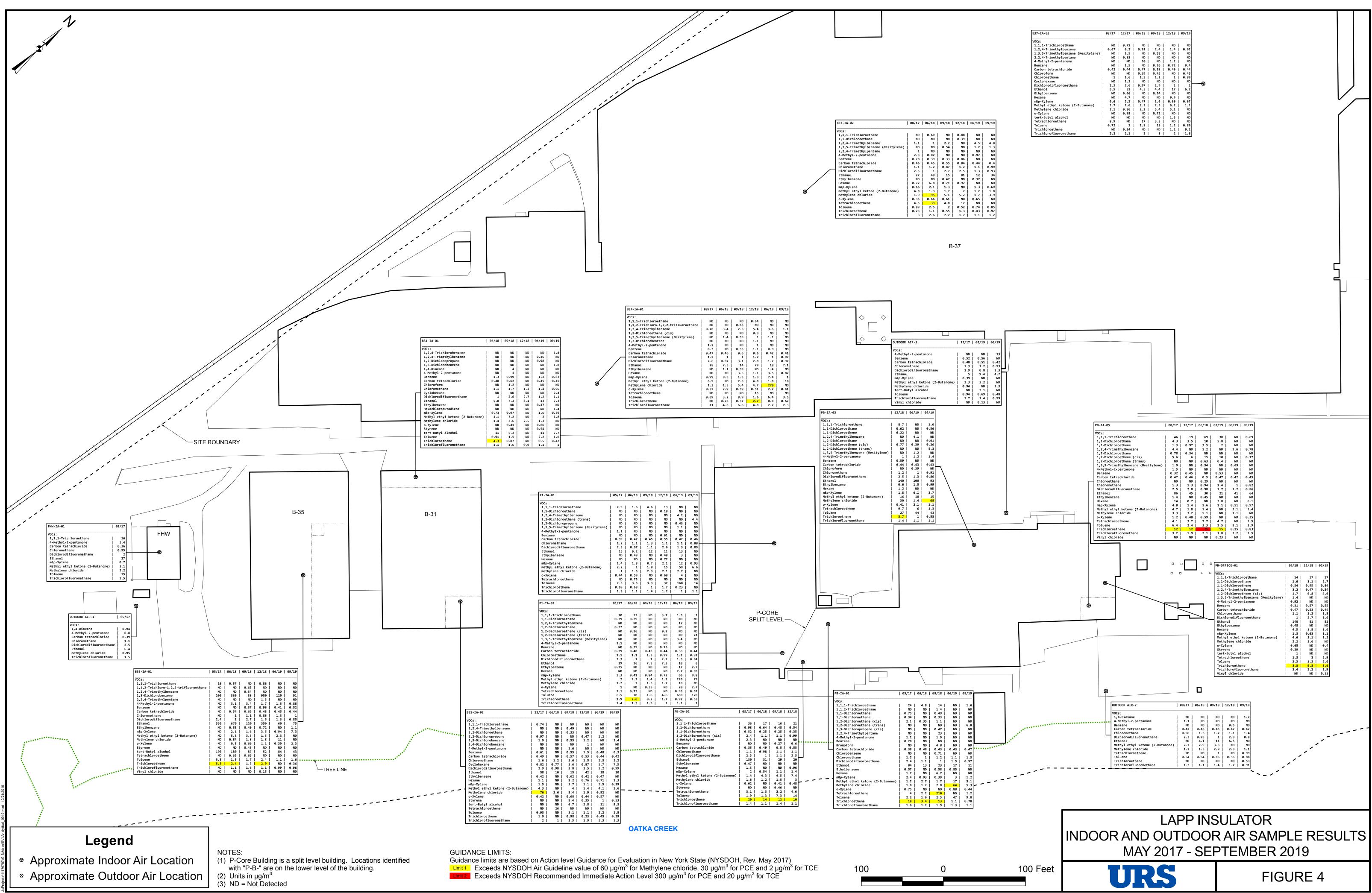
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ects/111767877GIS/Maps/All SVI Sample Locations 1218.mxd



B37-IA-03	08/17	12/17	06/18	09/18	12/18	09/19
VOCs:						
1,1,1-Trichloroethane	ND	0.71	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.67	6.2	0.91	2.4	1.4	0.92
1,3,5-Trimethylbenzene (Mesitylene)	ND	1.5	ND	0.58	ND	ND
2,2,4-Trimethylpentane	ND	0.93	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	10	ND	1.2	ND
Benzene	ND	1.5	ND	0.26	0.72	0.4
Carbon tetrachloride	0.42	0.44	0.47	0.58	0.49	0.44
Chloroform	ND	ND	0.69	0.45	ND	0.45
Chloromethane	1	1.6	1.3	1.1	1	0.89
Cyclohexane	ND	1.3	ND	ND	ND	ND
Dichlorodifluoromethane	2.3	2.6	0.97	2.9	1	1
Ethanol	5.5	32	4.3	4.4	17	6.2
Ethylbenzene	ND	0.66	ND	0.54	ND	ND
Hexane	ND	4.7	ND	ND	0.9	ND
m&p-Xylene	0.6	2.2	0.47	1.6	0.69	0.67
Methyl ethyl ketone (2-Butanone)	1.7	2.6	2.2	2.5	6.2	1.1
Methylene chloride	2.1	0.86	2.2	5.4	5.1	ND
o-Xylene	ND	0.95	ND	0.72	ND	ND
tert-Butyl alcohol	ND		ND	ND	1.3	ND
Tetrachloroethene	8.9	ND	17	3.3	ND	Í ND
Toluene	0.72	3	1.8	13	1.2	0.89
Trichloroethene	ND	0.24	ND	ND	1.2	0.2
Trichlorofluoromethane	2.2	2.1	2	İ 3	İ 2	İ 1.6

APPENDIX A INDOOR AIR QUALITY QUESTIONNAIRES AND BUILDING INVENTORIES

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Structure Sampling Questionnaire and Building Inventory New York State Department of Environmental Conservation

Revised 12-13-18 D. McDaid Updated 9-26-19

Site Name: Lapp Insulator Site				
Building Code: Office	Ruildin - Mr.	_ Site Code:	819017	Operable Unit
Address: 130 Gilbert St	Building Name:	B-31		
City: LeRoy			Apt/Suite No:	Office
Contact Information	_ State: <u>NY</u>	Zip: 14482	County: Ge	nesee
Drapararie Nome	No. 2			
Preparer's Affiliation: AECOM	DAIN		Phone No:	(716) 923-1101
Purpose of Investigation			Company Code	AECOM
Contact Name: Ron Richards			Date of Inspect	tion: Dec 18, 2017
Phone New Array			Affiliation:	MANAGER
Number of Oceanies to a state to			_ Email:	
Ccupant interviewed?				_
Owner Name (If different):	🔀 Owner Occup			Cowner Interviewed?
Owner Mailing Address:			Owner Phone:	
Building Details		States of the local division of the local di		
Bidg Type (Res/Com/ind/Mixed): INDUSTRIAL				
if Commercial or Industrial Facility, Select Operations: MANUFACTURING] fR		Bldg Size (S/M/L)	
Number of Floors: 1 Approx. Year Construction	·			
Describe Overall Building 'Tightness' and Airflows(e.g., result	1940	F Building	insulated?	Attached Garage?
	ts of smoke tests);			
Not Tight Foundation Description				
Foundation Type: NO BASEMENT/SLAB				
Foundation Floor Material: POURED CONCRETE		dation Depth (i		Unit: FEET
Foundation Wall Material: POURED CONCRETE		dation Floor Th		Unit: INCHES
Floor penetrations? Describe Floor Penetrations;	roun	dation Wall Thi	ckness:	Unit: INCHES
X Wall Depetrations? Describe Wells	doore ee			
Basement is: Basement is:	doors, seve	ral garage		
Describe Foundation Condition (cracks, seepage, etc.) :	acks are seal	Sumps/D		Sump?:
	acks are seal VOC Mitigation Sy	stem installed?		
neating/Cooling/Ventilation Systems			1 1	Mitigation System On?
Heating System: OTHER Heat	Fuel Type: EI	ECTRIC		entral A/C Present?
Vented Appliances				Since we present?
Water Heater Fuel Type: NONE Water Htr Vent Location:	Clothes	Dryer Fuel Type	e:	
		ent Location:	,	



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Structure Sampling Questionnaire and Building Inventory New York State Department of Environmental Conservation

Revised 12-13-18 D. McDaid

Site Name: Lapp Insulator Site	Site Code:819017 Operable Unit:
Building Code: Office Building Name	
Address: 130 Gilbert St	
City: LeRoy State: 1	Apt/Suite No: Office
Factors Affecting Indoor Air Quailty	NY ZIP: 14482 County: Genesee
Frequency Basement/Lowest Level is Occupied?: FULL TIME	Floor Materiai:
	Floor Materiai: CEMENT
Alternate Heat Source:	
X Air Fresheners? Description/Location of Air Freshener;	J plug ins along office walls
Cleaning Products Used Recently7: Description of Cleaning Products	
Cosmetic Products Used Recently?: Description of Cosmetic Products	
New Carpet or Furniture? Location of New Carpet/Furniture:	
Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:	
Recent Painting/Staining? Location of New Painting:	
Solvent or Chemical Odors? Describe Odors (if any):	
Do Any Occupants Use Solvents At Work? If So, List Solvents Used:	
Recent Pesticide/Rodenticide? Description of Last Use:	
Describe Any Household Activities (chemical use,/storage, unvented applian	ices, hobbles, etc.) That May Alloch Index Allo
BACK ROOM DOONS WORD & HEATEN (FL	UNAIR AN 12-13-18 D.A.K
11 OPEN 9-26-19	27
ALL DOOL IN DIDG. OPEN 9-26-19	
Any Prior Testing For Radon? If So, When?:	
X Any Prior Testing For VOCs? If So, When?: May 11, 2017	
ampling Conditions	
Weather Conditions	oor Temperature: 40 °F
Current Building Lise	
Product inventory Complete? Yes Building Questionnaire Co	1 4913 10(18/



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Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

		P	RODUCT IN		0	
Building Name: 3-3/		Bldg Code:		Date: 6-20-19		
Bldg Address				Apt/Suite	No:	
Bldg City/Sta	te/Zip:					
Make and Mo	odel of PID:			Date of Calibration:		
Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
331-IA-CA	BCK6D				Sten	<u> </u>
	BERGD ALL FRESHENRIS	6	υ	UNKNOWN	Open	<u> </u>
3-21-51	BERD	3			BRAM	<u> </u>
	SPRAY PAGAT	1202	U		1 Ppm	
	LUBRICANTS	VAR	U	ALIPHATIC HYDROCARBONS		
	PASLIT STREIPER	1802	υ	PETROLEUN OSL METHONY-3 MOTHL. BUTANOL	3pen	
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	Contra production and the second of	and successive and a				<u> </u>
						<u> </u>
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* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

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

Were there any elevated PID readings taken on site?

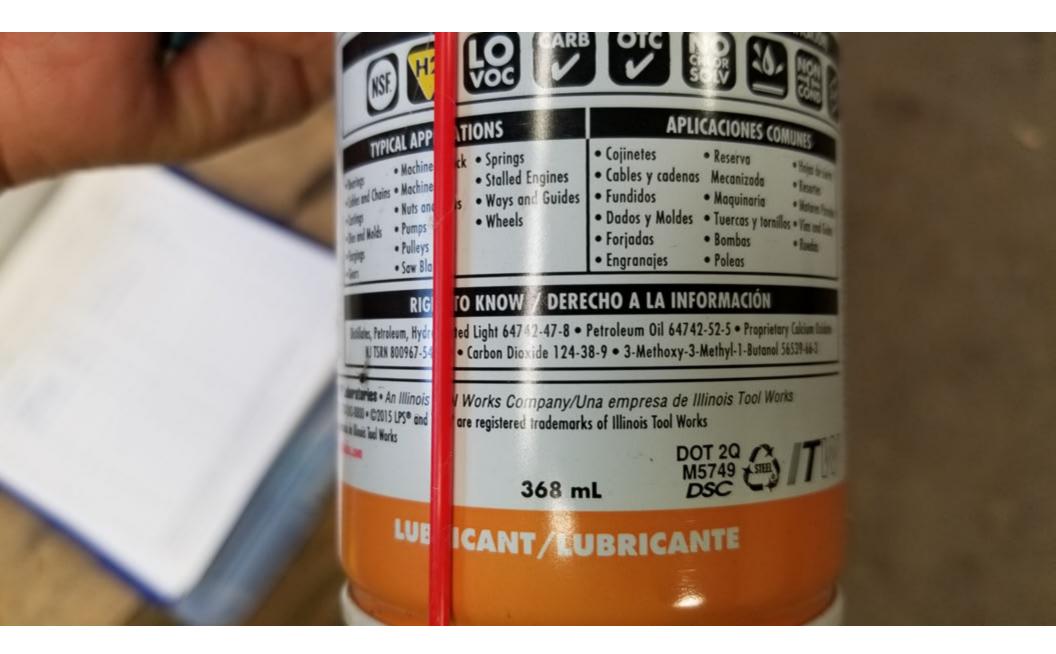


New York State Department of Environmental Conservation

®	071	F	RODUCT IN	VENTORY			
Building Name: B-3			Bldg	Code:	Date: 9-26-19		
Bldg Addres	· · · · · · · · · · · · · · · · · · ·				Apt/Suite No:		
Bldg City/Sta	ate/Zip:				_		
Make and M	odel of PID:			Date of Ca	libration:		
Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredier	nts PID Reading	COC Y/N?	
B-Y- <u>I</u> A-D	2 BAUKGROUND				Öben	Г	
7.21.41						Г	
B-31-IA.01	BACKERAND				ORIN		
	PLOBOND	1/2 PT	U	NOT LISTED	4 ppr		
	(PRENT STABLER) LOCASTE CHEVEL	1802	υ	METHYLENE CHLORIDE	Oppn		
	LPS TKX LUDIGLANT	1102	UO	SEE PHOTO	Deen		
	RUST STOP OIL BASED EVANCE	2402	U	PETROLEUN DISTULATES	ORM		
						Г	
						Г	
						<u> </u>	
No amo da como de la como de la como de la como de la como de la como de la como de la como de la como de la co	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	Г	
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						r	

* 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.



Pliobond TPO Bonding Adhesive

Material Safety Data Sheet

Updated: 8/08



Quality You Can Trust Since 1886… From North America's Largest Roofing Manufacturer™



SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME:	Pliobond [®] TPO Bonding Adhesive
TRADE NAME:	N/A
CHEMICAL NAME / SYNONYM:	N/A
CHEMICAL FAMILY:	Adhesive
MANUFACTURER:	GAF Materials Corporation
ADDRESS:	1361 Alps Road, Wayne, NJ 07470
24-HOUR EMERGENCY PHONE (CHEMTREC):	800 - 424 - 9300
INFORMATION ONLY:	800 - 766 - 3411
PREPARED BY:	Randy Redwine
APPROVED BY:	Phil Curry

NFPA Hazard Rating

HMIS Hazard Rating

Health Flammable Reactive	2 3 0	Health Flammable Reactive	2 3 0
Special Hazards	-	Personal Protection	Х
OSHA HAZARDOUS:	Yes X		No 🗌

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

CHEMICAL NAME	CAS #	% (BY WT)	OSHA	ACGIH	OTHER
Toluene	108-88-3	30-40%	200 ppm 300 ppm – ceiling	20 ppm	REL: 100 ppm 150 ppm STEL
Acetone	67-64-1	20-30%	1000 ppm	500 ppm 750 ppm STEL	REL: 250 ppm

CHEMICAL NAME	CAS #	% (BY WT)	OSHA	ACGIH	OTHER
Solvent Naphtha (Petroleum), Light Aliphatic	64742-89-8	5-10%	NE	300 ppm	REL: 350 mg/m3 1800 mg/m3 – ceiling
N-Hexane	110-54-3	5-10%	500 ppm	50 ppm	REL: 50 ppm
Cyclohexane	110-82-7	1.5-5%	300 ppm	100 ppm	REL: 300
n-Heptane	142-82-5	1-1.5%	500 ppm	400 ppm	ppm REL: 85 ppm
Ethyl Benzene	100-41-4	.15%	100 ppm	100 ppm	REL: 100 ppm

OCCUPATIONAL EXPOSURE LIMITS

NE = Non Established

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE OF EXPOSURE:	Inhalation, Skin, Eye, Ingestion
SIGNS & SYMPTOMS OF EXPOSURE	
EYES:	May cause irritation to the eyes. Symptoms include stinging, tearing, redness, and swelling of the eyes.
SKIN:	May cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.
INGESTION:	Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing and vomiting. This results in lung inflammation and other lung injuries.
INHALATION:	Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits. May cause allergic respiratory reaction.
ACUTE HEALTH HAZARDS:	Preexisting disorders of the following organs (or organ system) may be aggravated by exposure to this material; Upper respiratory track, skin, lung, liver, kidney, central nervous system, blood- forming system, male reproductive system, auditory system. Individuals with preexisting heart disorders may be more

susceptible to arrhythmias is exposed to high concentrations of this material.

CHRONIC HEALTH HAZARDS:
 Overexposure to this material has been suggested as a cause of the following effects in humans; kidney damage, visual impairment, central nervous system effects. Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intential abuse of toluene during pregenancy can cause birth defects in humans. Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness. Prolonged and repeated exposure to n-hexane may cause peripheral neuropathy by damaging peripheral nerve tissue and result in muscular weakness and loss of sensation.
 CARCINOGENICITY:

Ethyl benzene has been shown to cause cancer in laboratory animals. The relevance of this finding in humans is uncertain. The International Agency for Research on Cancer (IRAC) has classified ethyl benzene as a possible human carcinogen (Group 2B).

SECTION 4: FIRST AID MEASRURES

FIRST AID PROCEDURES

EYES:	Immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart. Seek immediate medical attention.
SKIN:	Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek immediate medical attention. Launder clothing before reuse.
INHALATION:	Immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep individual warm and quiet. If breathing is difficult, administer oxygen.
INGESTION:	Seek immediate medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.
NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:	Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion.

SECTION 5: FIRE FIGHTING PROCEDURES

SUITABLE EXTINGUISHING MEDIA:	Dry chemical, Carbon Dioxide (CO2)
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide and carbon monoxide, Hydrocarbons.
RECOMMENDED FIRE FIGHTING PROCEDURES:	Wear self-contained breathing apparatus and full protective clothing. Material is volatile and readily gives off vapors. Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.
UNUSUAL FIRE & EXPLOSION HAZARDS:	Vapors may accumulate and travel to ignition sources distant from handling site. Isolate from heat, sparks, and open flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Contain spillage and collect with non-combustible absorbent material and place in container for disposal. Suppress gases/vapors/mists with a water spray jet. Prevent run-off to sewers, streams or other bodies of water.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:Containers of this material may be hazardous when emptied.
Electrically bond and ground all containers, personnel and
equipment before transfer or use of material. Special
precautions may be necessary to dissipate static electricity for
non-conductive containers. Use proper bonding and grounding
during product transfer. Store in a cool, dry, ventilated area,
away form incompatible substances. Keep containers closed
when not in use. Do not store near extreme heat, open flame, or
sources of ignition.

OTHER PRECAUTIONS:

N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION:	Provide sufficient mechanical ventilation to maintain exposure below exposure guidelines or below levels that cause known, suspected or apparent adverse affects.
RESPIRATORY PROTECTION:	A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.
EYE PROTECTION:	Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.
SKIN PROTECTION:	Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse.
OTHER PROTECTIVE EQUIPMENT:	Eye washes and safety showers could also be provided.
WORK HYGIENIC PRACTICES:	Wash thoroughly after handling and before eating or smoking.
EXPOSURE GUIDELINES:	N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Amber liquid with a slight odor.				
FLASH POINT:	0.0 °F (-17.78 °C)	LOWER EXPLOSIVE LIMIT:	No data		
METHOD USED:	No data	UPPER EXPLOSIVE LIMIT:	No data		
EVAPORATION RATE:	> 1 (butyl acetate = 1)	BOILING POINT:	131 – 289 °F (55 – 143 °C)		
pH (undiluted product):	No data	MELTING POINT:	No data		
SOLUBILITY IN WATER:	Immiscible	SPECIFIC GRAVITY:	No data		
VAPOR DENSITY:	No data	PERCENT VOLATILE:	No data		
VAPOR PRESSURE:	46.10 hPa	MOLECULAR WEIGHT:	No data		
VOC WITH WATER (LBS/GAL):	No data	WITHOUT WATER (LBS/GAL):	No data		

SECTION 10: STABILITY AND REACTIVITY			
THERMAL STABILITY:	STABLE X		
CONDITIONS TO AVOID (STABILITY):	N/A		
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong acids, Strong oxidizing ag agents.	ents, Acids, Alkalis, Reducing	
HAZARDOUS DECOMPOSITION OR BY- PRODUCTS:	Carbon dioxide and carbon monoxide, Hydrocarbons.		
HAZARDOUS POLYMERIZATION:	Will not occur.		

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Oral Toxicity

Toluene	LD 50 Rat: 2,600-7,500 mg/kg
Acetone	LD 50 Rat: 5,800 mg/kg
Solvent Naphtha (Petroleum), Light Aliphatic	LD 50 Rat: > 8,000 mg/kg
N-Hexane	LD 50 Rat: 25 mg/kg
Cyclohexane	LD 50 Mouse: 1,300 mg/kg LD 50 Rat: 29,820 mg/kg
n-Heptane	LD 50 Rat: > 15,000 mg/kg
Ethyl Benzene	LD 50 Rat: 3,500 mg/kg

Acute Inhalation Toxicity

Toluene	LC 50 Rat: 8000 ppm, 4h
Acetone	LC 50 Rat: > 16000 ppm, 4h
Solvent Naphtha (Petroleum), Light Aliphatic	LC 50 Rat: 3400 ppm, 4h
N-Hexane	LC 50 Rat: 48000 ppm, 4h
Cyclohexane	LC 50 Rat: > 4044 ppm
n-Heptane	LC 50 Rat: 103 g/m3, 4h
Ethyl Benzene	LC 50 Rat: 4000 ppm, 4h

Acute Dermal Toxicity

Toluene	LD 50 Rabbit: 12,124 mg/kg
Acetone	LD 50 Rabbit: > 20,000 mg/kg
Solvent Naphtha (Petroleum), Light Aliphatic	LD 50 Rat: > 4,000 mg/kg
N-Hexane	LD 50 Rabbit: > 1.3 g/kg
Cyclohexane	LD 50 Rabbit: > 2.0 mg/kg
n-Heptane	LD 50 Rabbit: > 2,001 mg/kg

GAF	Materials	Corporation
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Ethyl Benzene

LD 50 Rabbit: 15,433 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of containers and absorbed material in accordance with all federal, state, and local requirements.

RCRA HAZARD CLASS: See Above.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT TRANSPORTATION

PROPER SHIPPING NAME:	ADHESIVES, 3, UN1133, II
HAZARD CLASS:	3
ID NUMBER:	UN1133
PACKING GROUP:	Flammable liquid
LABEL STATEMENT:	49 CFR 172.101 Adhesives, UN1133, IMDG Class 3.2, Pg. 3174, Flash Point <40.01°F (4.45°C)
OTHER:	N/A

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

 TSCA:
 This product and its components are listed on the TSCA 8(b) inventory.

 CERCLA:
 N/A

SARA

311/312 HAZARD CATEGORIES:	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
	Toluene 108-88-3 38.84%
	N-Hexane 110-54-3 6.4032%
	Cyclohexane 110-82-7 1.6968%
313 REPORTABLE INGREDIENTS:	Ethyl Benzene 100-41-4 0.2601%
CALIFORNIA PROPOSITION 65:	This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Toluene	108-88-3	Yes	Yes	Yes	Yes	No	Yes
Acetone	67-64-1	No	No	No	Yes	No	No
Solvent Naphtha (Petroleum), Light Aliphatic	64742-89-8	Yes	Yes	Yes	Yes	Yes	Yes
N-Hexane	110-54-3	No	Yes	Yes	Yes	Yes	Yes
Cyclohexane	110-82-7	Yes	Yes	Yes	Yes	Yes	Yes
n-Heptane	142-82-5	No	Yes	Yes	Yes	Yes	Yes
Ethyl Benzene	100-41-4	Yes	Yes	Yes	Yes	No	Yes

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS:	N/A
DATE OF PREVIOUS MSDS:	N/A
CHANGES SINCE PREVIOUS MSDS:	New MSDS

This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.



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Structure Sampling Questionnaire and Building Inventory New York State Department of Environmental Conservation

Revised 12-13-18 D. McDaid

Site Name: Lapp Insulator Site	- 4
Building Names D. a.	ode: 819017 Operable Unit:
Address: 130 Gilbert St	
City: La Roy State: NY Zio	Apt/Suite No:
Factors Affecting Indoor Air Quaiity	: 14482 County: Genesee
Frequency Basement/Lowest Level is Occupied?	
Inhabited? INVAC System On? Bathroom Ex	haust Fan?
Alternate Heat Source: QTHER	
Air Fresheners? Description/Location of Air Freshener:	Is there smoking in the building?
Cleaning Products Used Recently?: Description of Cleaning Products	
Cosmetic Products Used Recently?: Description of Cosmetic Products:	
New Carpet or Furniture? Location of New Carpet/Furniture:	
[Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:	
Recent Painting/Staining? Location of New Painting:	
Solvent or Chemical Odors? Describe Odors (if any):	
Do Any Occupants Use Solvents At Work? If So, List Solvents Used: Napthale Recent Pesticide/Rodenticide?	
Recent Pesticide/Rodenticide? Description of Last Use:	ene, Acetone
Describe Any Household Activities (change)	
Describe Any Household Activities (chemical use,/storage, unvented appliances, hobble Manufacturing area in building uses acetone and napthalene	s, etc.) That May Affect Indoor Air Quality
and mepthalene	
Any Prior Testing For Radon? If So, When?:	
X Any Prior Testing For VOCs? If So, When?: August 2017	-
ampling Conditions	
Weather Conditions: SUNNY Outdoor Terror	
Current Building Use: MANUFACTURING	
Product Inventory Complete? Yes X Building Questionnaire Completed?	re: in(hg)



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Structure Sampling Questionnaire and Building Inventory New York State Department of Environmental Conservation

Revised 12-13-18

Updated 9-26-19

1

D McDaid

Site Name: Lapp Insulator Site	
Building Code: B35	Site Code: 819017 Operable Unit:
Address: 130 Gilbert St	ing Name: B~35
City: Le Roy State:	Apt/Suite No:
Contact Information State:	NY Zip: 14482 County: Genesee
Preparer's Name: Dan McDaid	
Preparer's Affiliation: AECOM	Phone No: (716) 923-1166
Purpose of investigation:	Company Code
Contact Name: Ron Richards	Date of inspection: 6=6=18
Phone No: (585) 760 (000)	Affiliation: MANAGER
Number of Occupants (total):	Email
Cocupant Interviewed?	
	er Occupied? Owner Interviewed?
Owner Mailing Address: Building Details	Owner Phone:
Bidg Type (Res/Com/Ind/Mixed): INDUSTRIAL If Commercial or Industrial Facility, Select Operations: Industrial Facility, Select Operations: MANUFACTURING Number of Floors: 194 Number of Floors: 1 Approx. Year Construction: 194 Describe Overall Building 'Tightness' and Airflows(e.g., results of smoken's modeling dock lifts, gasen's modeling dock lifts, gasen's modeling dock lifts, gasen's modeling dock lifts, gasen's modeling to the second dock lifts, gasen's modeling tot the second dock lifts, gasen's modeling to the secon	e tests): rage doors in frequent use. Foundation Depth (bgs): Foundation Floor Thickness:
Wall penetrations? Describe Floor Penetrations: X Wall penetrations? Describe Wall Penetrations: garage doo Basement is: Garage doo	Foundation Wall Thickness: Unit: INCHES
Radon Mitigation System installed?	J Sumps/Drains? Water in Sump?:
Ventilation Systems	ation System installed? [Mitigation System On?
Water Heater Fuel Type: GAS	GAS Central A/C Present?
Water Htr Vent Location:	lothes Dryer Fuel Type:
	Iver Vent Location:

.....



New York State Department of Environmental Conservation

		1	PRODUCT IN	WENTODY			
Building Na	me: B-35						
Bldg Addres	5: 130 Gilbert St				Date:	5-5-18	
Bldg City/Sta				A	Apt/Suite	No:	
Make and M							
				Date of Calib	pration:	·····	
Location	Product Name/Description	Size (oz)	Condition *	Chemical ingredients		PID	COC Y/N
North End	Oil (2 drums)	-55 gal	U	-Background neer divine 0 ppb, he Circulation in North and of bid	ilay ek	Reading	
lorth End	Napthalene			Recignound near deputy to poly in		107	<u> </u>
lorth End	Acetona			circulation in north and of the	gg.		
ackground			u	Background HEBF drams Opply Hill Circulation in High and of Did	liboralr 99-		
	Background VOC Concentratio			Peak reading of 18 ppm in low-traffic i less air flow.	areas with	18 ppm	
ANCRACUT	BAG26Rav,D			9-18-	16	1319	<u> </u>
LEA	BACK GROUND			12-13-	18	9.0pm	
ALEA	SPRAY CLEANER	SS6AL	00	SPRAY CLEANER NOTLESTED		BUNG	<u> </u>
	UNIABELED DRUM		UE	SELECONE	<u></u>		
V	ELASTOSTL (10)	56AL	00			11.ppm	
		SGAL	U	POWHYDROGEN METRYLAI			
	NAPTHALLONE S	SGAL	υ	WASTE OF L NAPTHALENE		@109pm	
V	Q Q	INA	U	ALETONE		97pp	
	Q.						_ _ _

* 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.

Product Inventory Complete?

New York State Department of Environmental Conservation

			RODUCT IN	ENTORY			
Building Nan	ne: <u>R-35</u>	Bldg Code: Date: 620-R c			-20-A UP	DATE	
Bldg Address		Apt/Suite No:					
Bldg City/Sta							
Make and Mo					ite of Calibration:		
Location	Product Name/Description	Size (oz)	Condition *	Chemical I	ngredients	PID Reading	COC Y/N?
\$-35	BKD					9ppm	
	NO OTHER CHANGES				<u> </u>		<u> </u>
	(see Prev. Phile)						<u> </u>
			· · · · · · · · · · · · · · · · · · ·				
							F
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- 1672 1994-				o kaan maadaan yarat katika petika maan keto Maada taman o		, and a gram ,	Г
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							Γ.
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* Describe the condition of the product containers as **Unopened (UO), Used (U)**, or **Deteriorated (D)** ** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete?

Were there any elevated PID readings taken on site?

Products with COC?



New York State Department of Environmental Conservation

PRODUCT INVENTORY Building Name: **B-35** Bidg Code: _____ Date: 9-26-19 UPDATC Apt/Suite No: Bldg Address: Bldg City/State/Zip: Make and Model of PID:______ Date of Calibration:_____ Location Product Name/Description Size (oz) Condition * PID **Chemical Ingredients** COC Y/N? Reading BCKD Zpen **—** NO OTHER CHINGES Г Γ Γ Γ

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

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



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Revised 12-13-18 D. McDaid Updated 9-26-19

Structure Sampling Questionnaire and Building Inventory New York State Department of Environmental Conservation

Building Code: Wasehouse 2.27		Site Code:	51555
Building Code: Wasehouse (5-3)	Building Name:		819017 Operable Unit:
Address: 130 Gilbert St			
City: LeRoy	State: NY	71	Apt/Suite No:
Contact Information		Zip: 14482	County: Genesee
Preparer's Name: Kevin J. McGovern D.	MUNICA		
Preparer's Affiliation: AECOM	L'ACAPUS		Phone No: (716) 923-1101
Purpose of Investigation:			Company Code: AECOM
Contact Name: Ron Richards			Date of inspection: Dec 18, 2017
Phone New Jacob	Phone No:		Affiliation: MANAGER
Number of Occurrent to a th			Email:
Cccupant Interviewed?	ber of Children;		
Owner Name (if different):	X Owner Occupie	ed7	Owner Interviewed
Owner Mailing Address;			Owner Phone:
Building Details			
Ride Time (Bester a town of the			
Bidg Type (Res/Com/ind/Mixed): INDUSTRIAL			Bidg Size (S/M/L): LARGE
f Commercial or Industrial Facility, Select Operations	: If Re		t Structure Type:
Number of Floors: 1 Approx. Year Constr			
Describe Overall Building Water		IX Building	insulated? The task is a
I	manula	X Building	Aπached Garage?
Describe Overall Building 'Tightness' and Airflows(e.g.	, results of smoke tests):	Pi wanang	Attached Garage?
Average	, results of smoke tests):	Pi sanang	Attached Garage?
Average Foundation Description	, results of smoke tests):	Pi −midiriğ	Attached Garage?
Average Foundation Description Foundation Type: NO BASEMENT/SLAB			
Average Foundation Description Foundation Type: NO BASEMENT/SLAB_ Foundation Floor Material: POURED CONCRETE	Found	dation Depth (I	ogs): Unit: FEET
Average Oundation Description Foundation Type: NO BASEMENT/SLAB Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE	Found Found Found Found		Dgs): Unit: FEET
Average Foundation Description Foundation Type: NO BASEMENT/SLAB_ Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Floor penetrations? Describe Floor Penetrations	Found Found Found Found	dation Depth (I dation Floor Th	Dgs): Unit: FEET
Average Foundation Description Foundation Type: NO BASEMENT/SLAB Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Floor penetrations? Describe Floor Penetrations X Wall penetrations? Describe Wall Penetrations:	Found Found Found S:	dation Depth (I dation Floor Th dation Wali Thic	ogs): Unit: FEET Ickness: Unit: INCHES
Average Foundation Description Foundation Type: NO BASEMENT/SLAB Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Floor penetrations? Describe Floor Penetrations: X Wall penetrations? Describe Wall Penetrations: Basement is: Basement is:	Found Found Found Found Found S: Man doors, seven	dation Depth (I dation Floor Th dation Wall This cal garage	doors, tiered ceiling
Average Foundation Description Foundation Type: NQ BASEMENT/SLAB_ Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Floor penetrations? Describe Floor Penetrations: X Wall penetrations? Describe Wall Penetrations: Basement is: Basement is: Describe Foundation Condition (cracks, seepage, etc.)	Found Found Found Found Found S: Man doors, seven	dation Depth (I dation Floor Th dation Wali This cal garage [Sumps/D	doors, tiered ceiling
Average Foundation Description Foundation Type: NQ BASEMENT/SLAB_ Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Floor penetrations? Describe Floor Penetrations X Wall penetrations? Describe Wall Penetrations: Basement is: Basement is Describe Foundation Condition (cracks, seepage, etc.) Radon Mitigation System installed?	Found Found Found S: Man doors, seven Man doors, seven Cracks are seal	dation Depth (I dation Floor Th dation Wali This cal garage Cal garage Garage	bgs):Unit: FEET lckness:Unit: INCHES ckness:Unit: INCHES doors, tiered ceiling rains? Water in Sump?: ot promote airflow
Average Foundation Description Foundation Type: NQ BASEMENT/SLAB Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Floor penetrations? Describe Floor Penetrations X Wall penetrations? Describe Wall Penetrations: Basement Is: Basement Is Describe Foundation Condition (cracks, seepage, etc.) Radon Mitigation System installed? eating/Cooling/Ventilation Systems Setting/Cooling/Ventilation Systems	Found Found Found Found Found S: Man doors, seven	dation Depth (I dation Floor Th dation Wali This cal garage Cal garage Garage	bgs):Unit: FEET lckness: ckness:Unit: INCHES doors, tiered ceiling rains? Water in Sump?: ot promote airflow
Average Foundation Description Foundation Type: NO BASEMENT/SLAB_ Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Statement Wall Penetrations? Describe Floor Penetrations: Basement Is: Basement Is Basement Is: Basement Is Describe Foundation Condition (cracks, seepage, etc.) Radon Mitigation System Installed? eating/Cooling/Ventilation Systems Heating System:	Found Found	dation Depth (I dation Floor Th dation Wali Thic cal garage [Sumps/D ed or do n stem installed?	Dgs): Unit: FEET lckness: Unit: INCHES ckness: Unit: INCHES doors, tiered ceiling rains? Water in Sump?: ot promote airflow
Average Foundation Description Foundation Type: NO BASEMENT/SLAB_ Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Statement Wall Penetrations? Describe Floor Penetrations: Basement Is: Basement Is Basement Is: Basement Is Describe Foundation Condition (cracks, seepage, etc.) Fadon Mitigation System Installed? eating/Cooling/Ventilation Systems Heating System: Heating System: RADIANT HEATING	Found Found Found S: Man doors, seven Man doors, seven Cracks are seal	dation Depth (I dation Floor Th dation Wali Thic cal garage [Sumps/D ed or do n stem installed?	bgs):Unit: FEET lckness:Unit: INCHES ckness:Unit: INCHES doors, tiered ceiling rains? Water in Sump?: ot promote airflow
Average Foundation Description Foundation Type: NO BASEMENT/SLAB_ Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Floor penetrations? Describe Floor Penetrations: Sasement Is: Basement Is Basement Is: Basement Is Describe Foundation Condition (cracks, seepage, etc.) Radon Mitigation System installed? Heating /Cooling/Ventilation Systems Heating System: Heating System: RADIANT HEATING /ented Appliances Water Heater Fuel Type: Water Heater Fuel Type: GAS	Found Found	dation Depth (I dation Floor Th dation Wall This cal garage [Sumps/D ed or do n stem Installed]	Dgs): Unit: FEET lckness: Unit: INCHES ckness: Unit: INCHES doors, tiered ceiling rains? Water in Sump?: ot promote airflow Mitigation System On? Central A/C Present?
Average Foundation Description Foundation Type: NO BASEMENT/SLAB. Foundation Type: NO BASEMENT/SLAB. Foundation Floor Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Foundation Wall Material: POURED CONCRETE Floor penetrations? Describe Floor Penetrations: X Wall penetrations? Describe Wall Penetrations: Basement Is: Basement Is Basement Is: Basement Is Describe Foundation Condition (cracks, seepage, etc.) Radon Mitigation System installed? Heating/Cooling/Ventilation Systems Heating System: RADIANT HEATING Vented Appliances	Found Found	dation Depth (I dation Floor Th dation Wali Thic cal garage [Sumps/D ed or do n stem installed?	Dgs): Unit: FEET lckness: Unit: INCHES ckness: Unit: INCHES doors, tiered ceiling rains? Water in Sump?: ot promote airflow Mitigation System On? Central A/C Present?



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Structure Sampling Questionnaire and Building Inventory New York State Department of Environmental Conservation

Revised 12-13-18 D. McDaid

	p Insulator Site Operable Unit
	Building Name: B-37
Address: 130 G	ilbert St
City: LeRoy	State: NY Zip: 14482 County: Generation
Factors Affecti	ng Indoor Air Quality
Frequency Baseme	The second secon
Alternate Heat Sou	irce:
Air Fresheners?	Description/Location of Air Freshener,
Cleaning Produ	cts Used Recently?: Description of Cleaning Products:
Cosmetic Produ	cts Used Recently?: Description of Cosmetic Products:
New Carpet or F	
Recent Dry Clear	
Recent Painting	Elentry Dry Cleaned Fabrics:
	ical Odors? Describe Odors (if any):
Do Any Occupan	ts Use Solvents At Work? If So, List Solvents Used:
Recent Pesticide/	Rodenticide? Description of Last Use:
Describe Any Househ	old Activities (chemical use/storage, unvented application)
1905T DORS	AND WINDOWS WERE O'EN PROMINE WE WITH ER AIR FLOW THAN NORMAL
Any Prior Testing F	or Radon? If So, When?:
X Any Prior Testing F	Aug 31, 2017
mpling Conditio	
eather Conditions:	RAINY Outdoor Temperature: 40 *F
urrent Building Use:	MANUFACTURING Barometric Pressure: 29.9 in(hg)



New York State Department of Environmental Conservation

		P	RODUCT INV	/ENTORY			
Building Nam	ne: <u>B-37</u>	· • · · · · · · · · · · · · · · · · · ·	Bldg (Code:	Date	6-20-19	
Bidg Address	:	Apt/Suite No:					
Bldg City/Sta						<u> </u>	
Make and Mo					Date of Calibration):	
r	T	-r		T			
Location	Product Name/Description	Size (oz)	Condition *	Chei	mical Ingredients	PID Reading	COC Y/N?
B37-01	WASTE OFL	3552	U			0	Г
	BCK6D					б	
							
B37-02	Bergi					23ppm	厂
					<u> </u>		–
B37-03	BCKD					27ppm	
	WATER ONFLOOR			?		90ppm!	Г
	LUATER ONFLOOR LUCAK FROM ROOF						
							F
							Г
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an a sana ar a sa a sa sa sa sa sa sa sa sa sa sa sa							L
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							Г
•							

* 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.

Product Inventory Complete?



New York State Department of Environmental Conservation

		P	RODUCT INV	ENTORY		
Building Nan	ne: <u>B-37</u>		Bldg C	ode:	Date: 9-26-19	1
Bldg Address	5:				Apt/Suite No:	
Bldg City/Sta	te/Zip:		3			
Make and Mo	odel of PID:		·	Date of Ca	alibration:	
Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredie	nts PID Reading	COC Y/N?
A	UPDATE TO PR	erta	STIER	-		Г
$- \mathcal{D}$	BCK6D	10			0	Г
- P	AINTING ROOM	(13-3)	7-14-01)		
	FLAMMARIES CALENCE				Ο	
-	VARSOUS PASNUS/MEN	DRAL	YIRITS -N	OPED RANDINGS	0	Г
D						
13-37-2	A-02 Berrad -				0	<u> </u>
	NO UPDATES BO	,			0	<u> </u>
Day						
B-37-IA-0	3					
N	O UPDATES (RULLO =))		·	0	
					· · · · · · · · · · · · · · · · · · ·	
						Γ-
						Γ
						Γ

* 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

PCOLE

Updated 9-26-19

This form must be completed for each residence involved in indoor air testing.
Preparer's Name DAN McDALD Date/Time Prepared 5-5-17 /1300 5/1917
Preparer's Affiliation <u>AECOM</u> Phone No. <u>716-923-1166</u>
Purpose of Investigation SVI MONITOLENL /INIS VMORINTRUSSON
1. OCCUPANT: (OPER ATIONS MANAGER) Interviewed YN
Interviewed: Y) N
Last Name: WARDELL First Name: BREAN (LOU BUEREN)
Last Name: WANDELL First Name: BREAN (LOU BUEREN) Address: 135 GENEREN ST. LEROY, NY 14482 SETE CONTACT NOCT WEEK
County: GENESCE
Home Phone: <u>585-943-3386</u> Office Phone: <u>585-768-1200</u>
Number of Occupants/persons at this location Age of Occupants
2. OWNER OR LANDLORD: (Check if same as occupant)
Interviewed: YYA LAPP INSULATOR
Last Name:First Name:
Address: 130 Guident St LERay, NY 1482
County: Genesec
Home Phone: Office Phone: 585-768-6224

3. BUILDING CHARACTERISTICS

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l SR - 3

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	Other:

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

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Ranch Raised Ranch	2-Family Split Level	3-Family Colonial
Cape Cod	Contemporary	Mobile Home
Duplex Modular	Apartment House Log Home	Townhouses/Condos Other:
If multiple units, how r	-	
If the property is comm	nercial, type?	
Business Type(s)		
Does it include resid	dences (i.e., multi-use)? Y /	N If yes, how many?
Other characteristics:	at howe	LLEVEL, PARTITUR DELAW GRADE
Number of floors	1 STOCK REOM IS Buil	N If yes, how many? LLEVEL, PARTIALLY DELOWGRADE Iding age <u>60's</u>
Is the building insula	ated? 🕅 N How	v air tight? Tight Average / Not Tight
4. AIRFLOW		
Use air current tubes o	r tracer smoke to evaluate	airflow patterns and qualitatively describe:
Airflow between floors		
SLIGHT FLOW F	ISM MASN FLUOR TO	DOWNSTAINS ALONG RAMP
Airflow near source		
Airnow near source		
		2 2
Outdoor air infiltration		
2 64MAGE DODRS 1	JPSTATRS, I DAWNSTAS	LRS
SEVELAL MAN DOD	<u>y 1, 2 1)</u>	
SEVERAL WINDOW	S UPSTMIRS	
Infiltration into air ducts		
N/A		

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

a. Above grade constructi	on: wood frame	eoncrete	stone	brick
b. Basement type:	full	crawlspace	slab	other bout LEVEL
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 TREHTUM? STELL
g. Foundation walls:	unsealed	sealed	sealed with	L
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finishe	ed
j. Sump present?	YN			
k. Water in sump?	Y / N / not applicable			
Basement/Lowest level depth	below grade: <u>//</u> A	(feet)		

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

DEFEN FREE FLOOF PENETRATION BOTH LEVELS	_
CRACKI ARE SEALCO OR DO NOT PROMOTE ATPFLOW	-

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

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

Hot air circulationHeat pumpHot water baseSpace HeatersStream radiationRadiant floor	
	TK
Electric baseboard Wood stove Outdoor wood	

The primary type of fuel used is:

Natural Gas Electric Wood	Fuel Propa Coal		Kerosene Solar	
Domestic hot water tank fue	eled by: 1/	4		
Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other BATHIR OM
Air conditioning:	Central Air	Window uni	ts Open Windows	None

Are there air distribution ducts present? Y / N

4

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.

NONE FOUR	es)	
7. OCCUP	ANCY 2 SIIE	173
Is basement/		asionally Seldom Almost Never
Level	General Use of Each Floor (e.g., familyro	oom, bedroom, laundry, workshop, storage)
Basement	STOCK 1260M	
1 st Floor	Reighbelfwirt.	
2 nd Floor	,	
3 rd Floor		
4 th Floor		
8. FACTOR	S THAT MAY INFLUENCE INDOOR AIR	QUALITY
a. Is there	an attached garage?	YIN
b. Does the	e garage have a separate heating unit?	Y/N/NA
	oleum-powered machines or vehicles the garage (e.g., lawnmower, atv, car)	YN/NA Please specify Prof. LIPTS
	building ever had a fire?	Y / N When?
e. Is a kero	sene or unvented gas space heater present?	Y / N Where?
f. Is there a	a workshop or hobby/craft area?	V/N Where & Type? MAINTENANCE
g. Is there	smoking in the building?	Y N How frequently?
h. Have cle	eaning products been used recently?	(V/N When & Type? (JATER BASE) (LLANCE)
i. Have cos	metic products been used recently?	Y / 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 / D Where & When?
I. 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? If yes, please describe:	(ŷ/N
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or a boiler mechanic, pesticide application, cosmetologist	Y / 🕅 auto body shop, painting, fuel oil delivery,
If yes, what types of solvents are used?	
If yes, are their clothes washed at work?	Y / (N)
Do any of the building occupants regularly use or work at a response)	dry-cleaning service? (Circle appropriate
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	No Unknown
Is there a radon mitigation system for the building/structure Is the system active or passive? Active/Passive	e? Y N Date of Installation:
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Driven	Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Leach	Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill residentia	l emergency)
a. Provide reasons why relocation is recommended:	
b. Residents choose to: remain in home relocate to frie	
c. Responsibility for costs associated with reimbursemen	t explained? Y / N
d. Relocation package provided and explained to residen	ts? Y / N



New York State Department of Environmental Conservation

		PI	RODUCT INV	ENTORY			
Building Nam	PCORE BLOG		Bldg (Code:	Date: 6-2	0-19	
Bidg Address					Apt/Suite No):	
Bldg City/Stat	te/Zip:	2					
Make and Mo				Date of Ca	libration:	ant more constant	Station - Station - A
		· · · · ·		r			· · · · · · · · · · · · · · · · · · ·
Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredier	nts	PID Reading	COC Y/N?
PI-EN-DI	Belleb					5	
	Bello	(~25) 556AL	υ			5	_
	VARIOUS DRUMB	(25) 53642	40	VAR. EPDOY RELEAS		5	Γ.
	WARROWS DRUMS VARIOUS DRUMS VAR. PUBLS	(8) 56Az		VAR, EPDRY REPEAL BUTYL ALLOHD LDOORS CLOYED		5	
				Loons CLOSED			- F
							—
PI-IAOL	Br. KGU					GUPM	
Painting o	of metal structures taking paint thinner.	place ap	prox. 50 h	north of sample P1-IA-	02 - using	J No	PALE
PBEA-01						3	
POIA-03	Ratio	· ·				3pm	
rviros		+				- prn	
	VARQUIS SPRAN PAQUATS						
	PARIS THENNERS	e e a conserva e a para conserva e a conserva e a conserva e a conserva e a conserva e a conserva e a conserva				i	
	WD-40	<u> </u>					
	ADHESDUES (SPRAY) PATLO THENLER						L r
ри 	MEHHANOL					V	Г

** 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.

Product Inventory Complete?

☐ Products with COC?



New York State Department of Environmental Conservation

3		Р	RODUCT IN	VENTORY		
Building Nan	ne:		Bldg	Code:	Date: 9-26-19	
Bldg Address					_ Apt/Suite No:	
Bldg City/Sta	te/Zip:					
Make and Mo	odel of PID:			Date of C	alibration:	
Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredie	ents PID Reading	COC Y/N?
P 7-02					Oppm	Г
	HUDRANGLOS	20260 61-L	U	HYDRAULSLOIL	Olla	
Di ci i						
PIIAO	BACKGROUND				Opp	<u> </u>
PB=1-01	BACK GROWN)				Deem	
PB IA 03	BALKEROUND				Open	Γ-
	EHEM. CABENET, (LOVED	See	Photo		7-10ppm	Г
	EHEM. CABENET, (LOSED) CONTAINS VARIOUS SPEA	W PAKIN	son an	NORS, BRAKE CLANCE	z Srim	Γ
	CASTROL SUPERCLEAN				OPP	
OR man						
BIADS						
IVOTE -	MOST GARAR DOORS	OPEN	DUKING	WORK DAY		
						r

* 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.



Structure Sampling Questionnaire and Building Inventory Updated 9-26-19

New York State Department of Environmental Conservation

Site Name: Lapp Insulator		_ Site Code:	Operable Unit:
Building Code: PCore LAB	Building Name:	PCore	
Address: 130 Gilbert St			Apt/Suite No:
City: Le Roy	State: NY	Zip: 14482	County: Genesee
Contact Information	one de Rite de la carter esta tras parte parte de la complet	n - 14 🖩 Clark & Dorber & The Antonio 🕷 ed Paris community y cu	ο δουσμού τους του αποδολογδουσμού τη θαζουστή του δου στουργήθη. Ο θουσγορις δου θου βαλογθαί μου θουσιού τη το υ (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο του (1910) Ο
Preparer's Name: Dan McDaid		<u>.</u>	Phone No: 716-923-1166
Preparer's Affiliation: URS			Company Code:
Purpose of Investigation: Indoor Air Sampling	<u> </u>		Date of Inspection: 2-7-19/2-8-19
Contact Name: Rob Cassatt			Affiliation:
Phone No: 585-472-4256 Alt. Phone No: 585-472-4256	No:		Email:
Number of Occupants (total): 1 Number of	Children:		
Cccupant Interviewed?	Owner Occup	pied?	C Owner Interviewed?
Owner Name (if different): Lapp Insulator (Owne	r), Hubbell	(Renter)	Owner Phone:
Owner Mailing Address:			
Building Details	nyananan (an mananan an an an an an an an an an an an	enered the addition of the second of the second second second second second second second second second second	999 - 1999 -
Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIX	FD		Bldg Size (S/M/L):
If Commercial or Industrial Facility, Select Operations: MANUFACTURING	lf	Residential Sele	ct Structure Type:
Number of Floors: 2 Approx. Year Construction	n: 1960	🔀 Buildin	g insulated?
Describe Overall Building 'Tightness' and Airflows(e.g., resu	Its of smoke tests):	
Airflow is generally tight in the labor	natoru ouco		
Foundation Description	racory, exce	ot for one	air conditioner.
Foundation Type: NO BASEMENT/SLAB	Fo	undation Depth	(bgs): Unit: FEET
Foundation Floor Material:	Fo	undation Floor	Fhickness:
Foundation Wall Material:	Fo	undation Wall T	hickness: Unit: INCHES
Floor penetrations? Describe Floor Penetrations:	Sump Pit in (center of 1	ab
X Wall penetrations? Describe Wall Penetrations: D	rain Pipes		
Basement is: PARTTALLY FINISHED Basement is: DI	RY	- 🖂 Sumps	/Drains? Water In Sump?: NO
Describe Foundation Condition (cracks, seepage, etc.) :	One crack ac	coss lab, no	o airflow associated with it
Radon Mitigation System Installed?	VOC Mitigation	n System Installe	ed?
Heating/Cooling/Ventilation Systems			
Heating System: FORCED AIR Heating	at Fuel Type:	GAS	Central A/C Present?
Vented Appliances			
Water Heater Fuel Type:	Clot	hes Dryer Fuel T	ype:
Water Htr Vent Location:	Drve	er Vent Location	



Structure Sampling Questionnaire and Building Inventory New York State Department of Environmental Conservation

Site Name: Lapp Insulator	Site Code:	Operable Unit:
Building Code: PCore Bui	lding Name: PCore	
Address: 130 Gilbert St		Apt/Suite No:
City: Le Roy	State: NY Zip: 14482	County: Genesee
Factors Affecting Indoor Air Quailty		
Frequency Basement/Lowest Level is Occupied?: OCCAST	ONALLY Floor Material:	CEMENT
Inhabited? HVAC System On?	Bathroom Exhaust Fan?	🔀 Kitchen Exhaust Fan?
Alternate Heat Source:	is t	here smoking in the building?
Air Fresheners? Description/Location of Air F	Freshener:	
Cleaning Products Used Recently?: Description of Clean	ing Products: Windex	
Cosmetic Products Used Recently?: Description of Cosme	etic Products:	
New Carpet or Furniture? Location of New Carpet/Furr	niture:	
Recent Dry Cleaning? Location of Recently Dry Clea	aned Fabrics:	
Recent Painting/Staining? Location of New Painting:		
Solvent or Chemical Odors? Describe Odors (if any):		
🔀 Do Any Occupants Use Solvents At Work? If So, List Solve		y - see inventory
Recent Pesticide/Rodenticide? Description of Last Use:		•
Describe Any Household Activities (chemical use,/storage, unv This Laboratory is used for the creation As such, there are numerous chemicals tha Laboratory sump has been sealed by URS/AE	and testing of resins for t are used and tested rea	r various applications.
Any Prior Testing For Radon? If So, When?: X Any Prior Testing For VOCs? If So, When?: Jan 1,	2017	
Sampling Conditions		
Weather Conditions: RAINY	Outdoor Temperature:	30 °F
Current Building Use:	Barometric Pressure:	in(hg)
Product Inventory Complete?	uestionnaire Completed?	



Т

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY						
Bldg Code: PCore Date:						
Apt/Suite No:						
Date of Calibration: 2-5-19						

	Location		Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
	Labor	Laboratory Background					0	
	Flammables Cabinet (contents removed for June 2019 Sampling)		Part A	32	U	methyl ethyl ketone	0	
1.			Accellerator (qty 4)	1/2 gal	U	not listed	0	
			Fluorescent Leak Detector	16	U	not listed	0	
			Rust Stop	15	U	Ketones, aromatic hydrocarbons, aliphatic hydrocarbons	0	
			Terro Ant Killer	15	U	See Attached Photo	0	
			Adhesive sealant	305 ml	U	See Attached Photo	0	·
			Hexane	1 qt	U	Hexane	1 ppm	
			Elastosil (qty 2)	0.15 kg	U	not listed	0	
	\checkmark	1	Air-dry shellac	1 qt	U	not listed	0.1 ppm	·····
	Labora	atory	Hi-Gloss Acrylic Enamel	1 qt	U	Ethylene glycol, ester alcohol, acrylic polymer	0	
	Laboratory Laboratory Laboratory		Touch-up Paint	4	U	not listed	4.7 ppm	
			Mold Release	1 gal	U	cyclic tetramer	0	
			Pump Oil	1 gal	U		0	
	Labora	atory	Oil Samples (qty 17)	4 oz	U		0	* no con
					U		0	

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

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



New York State Department of Environmental Conservation

		P	RODUCT INVEN	FORY a			
Building Nan	ne:PCore		Bldg Code	: PCore	Date:	·····	
Bldg Address	: 130 Gilbert Street				Apt/Suite	 No:	
Bldg City/Sta	te/Zip: Le Roy NY, 1448	12		- <u> </u>	·		
Make and Mo	odel of PID: MiniRAE 3000			D	ate of Calibration:	2-5-19	
Location	Product Name/Description	Size (oz)	Condition *	Chemical	Ingredients	PID Reading	COC Y/N?
Laboratory	Background				<u> </u>	0	
·	Transformer Oil (qty 23)	32	U			0	
	Transformer Oil (qty 18)	12	U			0	
						<u> </u>	······

	1	<u> </u>	+		neuding	
Laboratory	Background				0	
	Transformer Oil (qty 23)	32	U		0	
	Transformer Oil (qty 18)	12	U		0	, <u>, , , , , , , , , , , , , , , , , , </u>
	Glycerine	1 qt	U		0	
	Viscosity Standard	1 pt	U	unknown	0	
	Resin (qty approx. 40)	various	U	Anhydrides, and other unknown compounds	0	
	Resin Hardener qty approx. 20	various	U	See attached photo	0	
	Resin Flexibileizers (qty 30)	various	U	Anhydrides and other unknown compounds	0	<u>_</u>
	Pigments (qty 10)	1 pt, 1 qt	U	6-bisphenol-A-epichlorhydrin; 2-oxirane; mono (12-14-alkyloxy) methyl dervis	0	<u></u>
	Windex	26	U		0	
	Silicon	5 gal	U	· · · · · · · · · · · · · · · · · · ·	0	<u>I</u>
	lsopropanol (qty 5)	var	U		0	
	Ethanol	12	U		0	
	Alumina	5 gal	U	777	0	I
	Alpha 1	5 gal	U	???	0	
	Ероху	32	U		0	I

* 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.

Product Inventory Complete?

Were there any elevated PID readings taken on site?



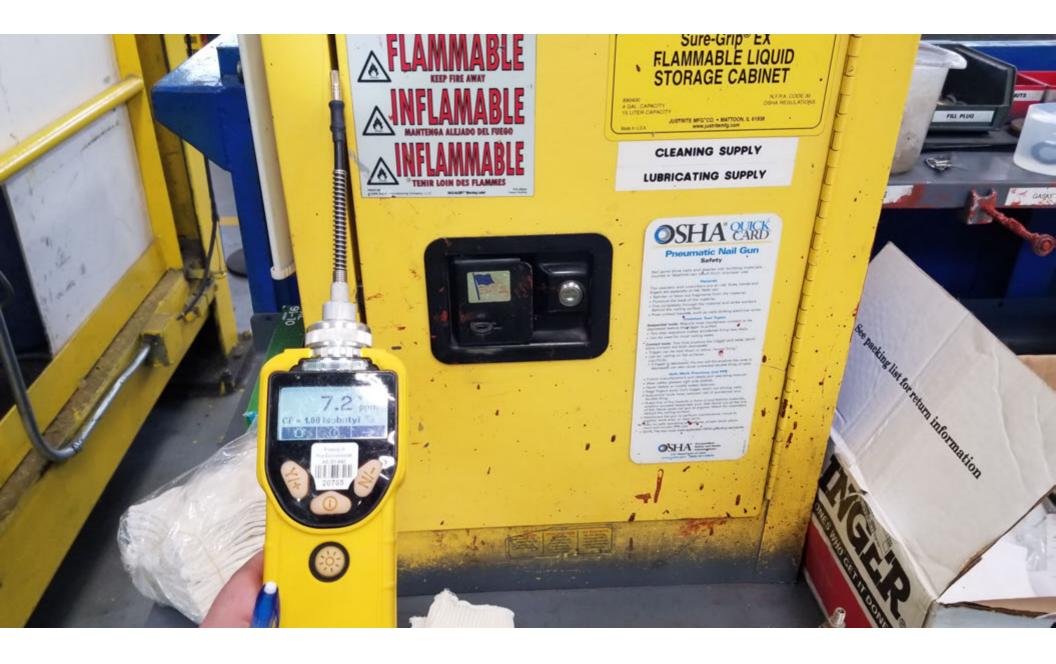
Structure Sampling Questionnaire and Building Inventory

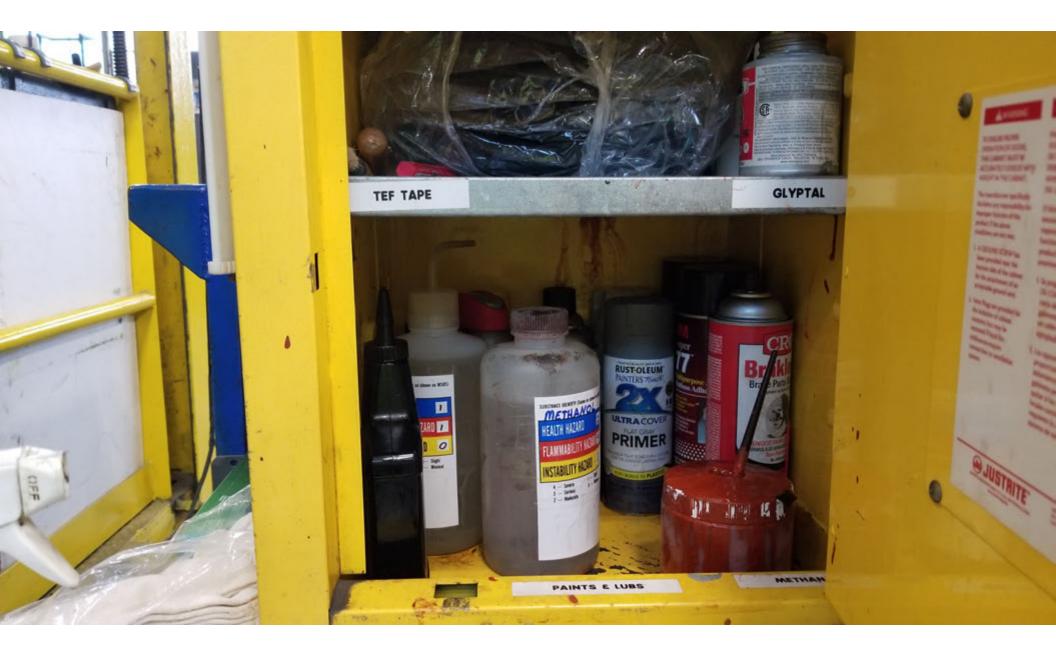
New York State Department of Environmental Conservation

		P	RODUCT INVE	NTORY			
Building Nan			Bldg Co	de:	Date:	0-19	9-26-19
Bldg Address	5:				Apt/Suite No:		
Bldg City/Sta	te/Zip:						
Make and Mo	odel of PID:			Date of Ca	alibration:		
Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredie	nts	PID Reading	COC Y/N?
Pores	Bekos					Ø1	
AZ	LAM, CABLUET RC.						
	NO OTHER SOLAD	TCA.D	CHANGE				<u> </u>
	REPRICTO PLADOUS PALE				_		
BINOS	DALKGROUND					Open	
A	FLAMMABLES CARDUCT	NOTT	emoved FRor	LAB FOR THIS			
	SAMPLENS EVENT						
	REFER TO PREV. PA	6 <u>E</u> S-1	JO CHANGE	S TO LAB INVENTO	NRY		_
					/		
				· · · · · · · · · · · · · · · · · · ·			
							<u> </u>
							

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

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





APPENDIX B PHOTOGRAPHS

J:\Projects\60414764_Lapp_SVI\500_Deliverables\502_Indoor Air Monitoring Reports\September 27 2019\report.hw.0819017.2019-11-14.Lapp_Insulator_Site_SVI_Data_Summary_Report_September2019.docx

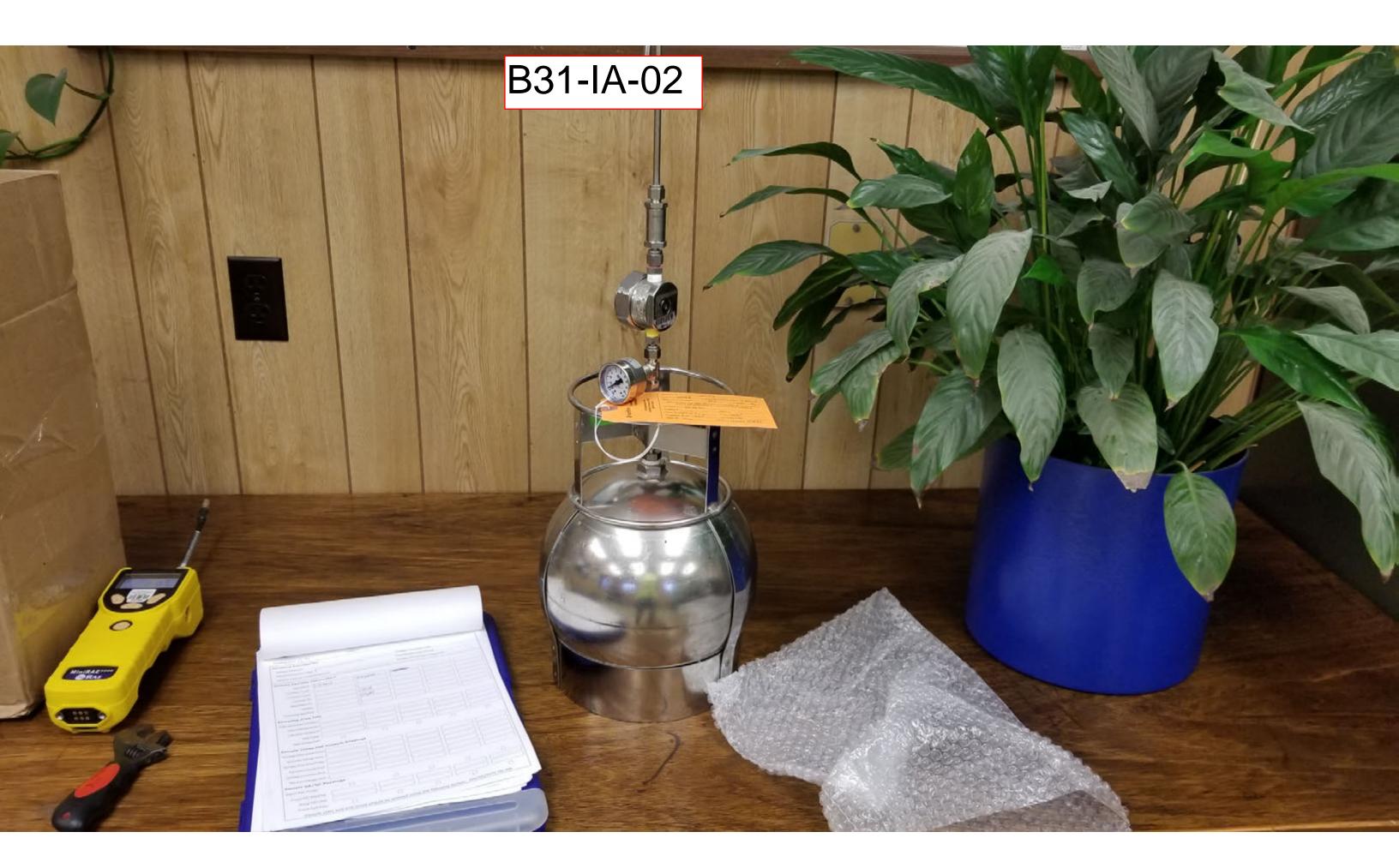








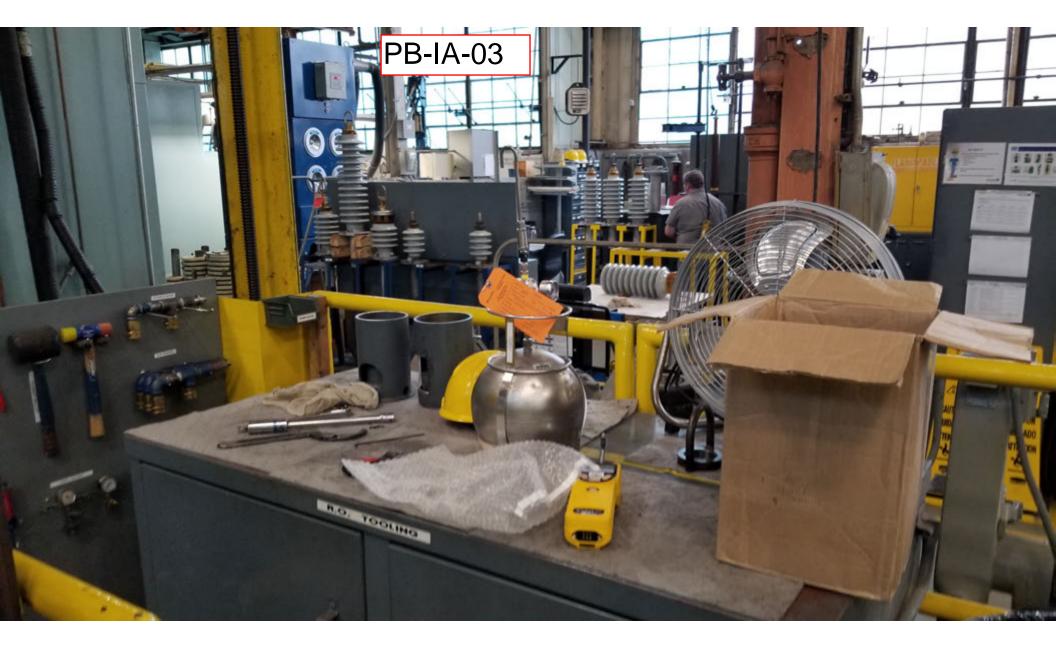
















APPENDIX C

DATA USABILITY SUMMARY REPORTS

J:\Projects\60414764_Lapp_SVI\500_Deliverables\502_Indoor Air Monitoring Reports\September 27 2019\report.hw.0819017.2019-11-14.Lapp_Insulator_Site_SVI_Data_Summary_Report_September2019.docx

DATA USABILITY SUMMARY REPORT

SOIL VAPOR INTRUSION STUDY LAPP INSULATOR SITE LEROY, NEW YORK WORK ASSIGNMENT D007622-11.2 SITE #819017

Analyses Performed by:

EUROFINS TESTAMERICA, KNOXVILLE KNOXVILLE, TN

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION

Prepared by:

URS CORPORATION 257 WEST GENESEE STREET, SUITE 400 BUFFALO, NY 14202-2657

OCTOBER 2019

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1.0	INTRODUCTION	. 1
2.0	ANALYTICAL METHODOLOGIES/DATA VALIDATION PROCEDURES	. 1
3.0	DATA DELIVERABLE COMPLETENESS	. 2
4.0	SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES	. 2
5.0	NONCONFORMANCES	. 2
6.0	SAMPLE RESULTS AND REPORTING	3
7.0	SUMMARY	. 3

TABLES (Following Text)

 Table 1
 Validated Outdoor Air and Indoor Air Sample Results

ATTACHMENTS

Attachment A Validated Form I's

Attachment B Support Documentation

1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B, Guidance for Data Deliverables and the Development of Data Usability Summary Reports,* May 2010. Discussed in this DUSR are analytical data for eleven indoor air samples, one indoor air field duplicate (FD), and one ambient (outdoor) air sample collected on September 26-27, 2019. The samples were collected in support of the Soil Vapor Intrusion Study assigned to URS under the direction of NYSDEC Work Assignment D007622-11.2 for the Lapp Insulator Site (Site #819017), located in LeRoy, New York.

2.0 ANALYTICAL METHODOLOGIES/DATA VALIDATION PROCEDURES

All samples were sent to Eurofins TestAmerica, Knoxville (Knoxville, TN) for analysis. The samples were analyzed for volatile organic compounds (VOCs) following United States Environmental Protection Agency (USEPA) Compendium Method TO-15, Determination of VOCs in Air Collected in Specially Prepared Canisters and Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS), EPA/625/R-96/010b, January 1999.

A limited data validation was performed in accordance with the guidelines in the following USEPA Region II document:

• Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, SOP HW-31, Rev. 6, June 2014.

The limited validation included: a completeness review of all required deliverables; holding times; a review of quality control (QC) results [blanks, instrument tunings, calibration standards, duplicate analyses, and laboratory control sample (LCS) recoveries] to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Definitions of USEPA data qualifiers are presented at the end of this text. The validated analytical results are presented on Table 1 (outdoor air/indoor air). Documentation supporting the qualification of data is presented in Attachment A. Only analytical deviations affecting data usability are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

4.0 SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chainof-custody (COC) with the following exceptions:

Sample PB-IA-03 was received at ambient pressure (i.e., Summa® can pressure was zero). Because the integrity of the sample cannot be verified, all results have been qualified 'J' or 'UJ'.

All samples were analyzed within the required holding times.

5.0 NONCONFORMANCES

Instrument Calibration

The percent relative standard deviation (%RSD) between the initial calibration (ICAL) relative response factors (RRF) was greater than the QC limit of 30% for methylene chloride. The detected results for this compound in samples B35-IA-01, B37-IA-02, PB-IA-01, PB-IA-03, and OA-02 were qualified 'J'.

Support documentation (i.e., Form 6) are presented in Attachment B.

Laboratory Blanks

Methylene chloride was detected in the laboratory blanks at concentrations greater than the reporting limit (RL). The results for this compound in samples B31-IA-01, B31-IA-02, FD092719 (B35-IA-01), B37-IA-01, B37-IA-03, P1-IA-01, P1-IA-02, and PB-IA-05 were qualified 'U' at two times the RL or the detected result, whichever was greater. If the sample result exceeded four times the RL the 'B' qualifier applied by the laboratory was removed. Support documentation (i.e., Forms 1,4) are presented in Attachment B.

6.0

SAMPLE RESULTS AND REPORTING

A FD was collected at location B35-IA-01. Upon review of the results large discrepancies were noted between the parent sample and FD. The laboratory was contacted and discovered the summa® canister for the parent sample contained residue that had not been removed by the batch cleaning process prior to sample collection. This residue impacted the sample results and could have caused false positives. To be conservative all the results from sample B35-IA-01 have been rejected. The results for the field duplicate sample were not affected.

7.0 SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, except where previously noted. Those results qualified 'R' (rejected) should not be used. Those results qualified 'UJ' (estimated quantitation limit) or 'J' (estimated concentration) during the data review are considered conditionally usable. Those samples qualified 'U' during the data review are considered non-detect. All sample results are usable as reported. URS does not recommend the recollection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist

Cost .

Date:

10/16/19

Reviewed By: George E. Kisluk, Senior Chemist

Date:

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DEFINITIONS OF USEPA DATA QUALIFIERS

- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
- D- The sample result was reported from a secondary dilution analysis.

Location ID Sample ID		B31-IA-01	B31-IA-02	B35-IA-01	B35-IA-01	B37-IA-01 B37-IA-01
		B31-IA-01	B31-IA-02	B35-IA-01	FD 092719	
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	•	-	•	•
Date Sampled		09/27/19	09/27/19	09/27/19	09/27/19	09/27/19
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	0.44 U	0.44 U	R	0.44 U	0.44 U
,1,2,2-Tetrachloroethane	UG/M3	0.55 U	0.55 U	R	0.55 U	0.55 U
,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.61 U	0.61 U	R	0.61 U	0.61 U
,1,2-Trichloroethane	UG/M3	0.44 U	0.44 U	R	0.44 U	0.44 U
,1-Dichloroethane	UG/M3	0.32 U	0.32 U	R	0.32 U	0.32 U
,1-Dichloroethene	UG/M3	0.16 U	0.16 U	R	0.16 U	0.16 U
,2,4-Trichlorobenzene	UG/M3	1.4	0.59 U	R	0.59 U	0.59 U
,2,4-Trimethylbenzene	UG/M3	0.39 U	0.39 U	R	0.39 U	1.1
,2-Dibromoethane (Ethylene dibromide)	UG/M3	0.61 U	0.61 U	R	0.61 U	0.61 U
,2-Dichlorobenzene	UG/M3	0.48 U	0.48 U	R	0.48 U	0.48 U
,2-Dichloroethane	UG/M3	0.32 U	0.32 U	R	0.32 U	0.32 U
,2-Dichloroethene (cis)	UG/M3	0.16 U	0.16 U	R	0.16 U	0.16 U
,2-Dichloroethene (trans)	UG/M3	0.32 U	0.32 U	R	0.32 U	0.32 U
,2-Dichloropropane	UG/M3	0.37 U	0.37 U	R	0.37 U	0.37 U
,2-Dichlorotetrafluoroethane	UG/M3	0.56 U	0.56 U	⊡ R →	0.56 U	0.56 U
,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.39 U	0.39 U	R	0.39 U	0.39 U
,3-Dichlorobenzene	UG/M3	1.8	1.4	R	91 D	0.48 U
3-Dichloropropene (cis)	UG/M3	0.36 U	0.36 U	Ř	0.36 U	0.36 U
3-Dichloropropene (trans)	UG/M3	0.36 U	0.36 U	R	0.36 U	0.36 U
4-Dichlorobenzene	UG/M3	0.48 U	0.48 U	R	0.48 U	0.48 U
4-Dioxane	UG/M3	0.72 U	0.72 U	R	0.72 U	0.72 U
2,4-Trimethylpentane	UG/M3	0.93 U	0.93 U	R	0.93 U	0.93 U
Methyl-2-pentanone	UG/M3	0.82 U	0.82 U	R	0.88	0.82 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/16/19 Checked By: GEK 10/16/19 Page 1 of 9

J:\Projects\Smatl_Chemistry_Jobs\DB\Program\EDMS.mde Printed: 10/16/2019 2:47:17 PM [SITE KEY] = 27 AND [LOGDATE] > #9/1/2019#

Detection Limits shown are PQL

Location ID Sample ID Matrix		B31-IA-01	B31-IA-02	B35-IA-01	B35-IA-01	B37-IA-01
		B31-IA-01	B31-IA-02	B35-IA-01	FD 092719	B37-IA-01
		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/27/19	09/27/19	09/27/19	09/27/19	09/27/19
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
Benzene	UG/M3	0.83	0.30	R	0.52	0.26 U
Benzyl chloride	UG/M3	0.83 U	0.83 U	R	0.83 U	0.83 U
Bromodichloromethane	UG/M3	0.54 U	0.54 U	R	0.54 U	0.54 U
Bromoform	UG/M3	0.83 U	0.83 U	R	0.83 U	0.83 U
Bromornethane	UG/M3	0.31 U	0.31 U	R	0.31 U	0.31 U
Carbon tetrachloride	UG/M3	0.45	0.42	R	0.44	0.41
Chlorobenzene	UG/M3	0.37 U	0.37 U	R	0.37 U	0.37 U
Chloroethane	UG/M3	0.21 U	0.21 U	R	0.21 U	0.21 U
Chloroform	UG/M3	0.39 U	0.39 U	R	0.39 U	0.39 U
Chloromethane	UG/M3	0.96	1.2	R	1.0	0.97
Cyclohexane	UG/M3	2.4	7.5	R	0.69 U	0.69 U
Dibromochloromethane	UG/M3	0.68 U	0.68 U	R	0.68 U	0.68 U
Dichlorodifluoromethane	UG/M3	1.1	0.99	R	0.85	0.97
Ethanol	UG/M3	7.3	10	R	75	7.1
Ethylbenzene	UG/M3	0.35 U	0.35 U	R	1.1	0.35 U
lexachlorobutadiene	UG/M3	1.4	0.85 U	R	0.85 U	0.85 U
lexane	UG/M3	0.70 U	1.3	R	0.70 U	0.82
n&p-Xylene	UG/M3	0.39	0.59	R	7.3	1.0
flethyl ethyl ketone (2-Butanone)	UG/M3	1.8	1.6	R	0.94 U	10
fethyl tert-butyl ether	UG/M3	0.58 U	0.58 U	R	0.58 U	0.58 U
lethylene chloride	UG/M3	2.0 U	1.4 U	R	1.5 U	1.4 U
-Xylene	UG/M3	0.35 U	0.35 U	R	2.3	0.41
ityrene	UG/M3	0.34 U	0.53	R	0.34 U	0.34 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/16/19 Checked By: GEK 10/16/19

Detection Limits shown are PQL

Location ID		B31-IA-01	B31-IA-02	B35-IA-01	B35-IA-01	B37-IA-01
Sample ID		B31-JA-01	B31-IA-02	B35-IA-01	FD 092719	B37-IA-01
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	•			-
Date Sampled		09/27/19	09/27/19	09/27/19	09/27/19	09/27/19
Parameter	Units	15	14		Field Duplicate (1-1)	
Volatile Organic Compounds	1					
ert-Butyl alcohol	UG/M3	7.7	9.3	R	43	0.97 U
etrachloroethene	UG/M3	0.54 U	0.54 U	R	0.54 UJ	0.54 U
oluene	UG/M3	1.6	1.5	R	1.6	3.5
richloroethene	UG/M3	0.47	0.29	^N R	0.36	0.62
richlorofluoromethane	UG/M3	1.0	1.3	R	0.96	2.3
'inyl chloride	^{≈ ⊂} UG/M3	0.10 U	0.10 U	R	0.10 U	0.10 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/16/19 Checked By: GEK 10/16/19

Detection Limits shown are PQL

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Location ID		B37-IA-02	B37-IA-03	OUTDOOR AIR-2	P1-IA-01	P1-IA-02
Sample ID		B37-IA-02	B37-IA-03	OA-02	P1-IA-01	P1-IA-02
Matrix		Indoor Air	Indoor Air	Ambient Air	Indoor Air	Indoor Air
Depth interval (ft)		-		•	-	•
Date Sampled		09/27/19	09/27/19	09/27/19	09/27/19	09/27/19
Parameter	Units					
Volatile Organic Compounds		<u> </u>	· · · · · · · · · · · · · · · · · · ·			
1,1,1-Trichloroethane	UG/M3	0.44 U	0.44 U	0.44 U	0.44 U	1.0
1,1,2,2-Tetrachloroethane	UG/M3	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,1,2-Trichloroethane	UG/M3	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1-Dichloroethane	UG/M3	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1-Dichloroethene	UG/M3	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2,4-Trichlorobenzene	UG/M3	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U 🕫 🔍
1,2,4-Trimethylbenzene	UG/M3	4.8	0.92	0.39 U	0.39 U	0.39 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
1,2-Dichlorobenzene	UG/M3	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	UG/M3	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2-Dichloroethene (cis)	UG/M3	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichloroethene (trans)	UG/M3	0.32 U	0.32 U	0.32 U	4.4	74 D
1,2-Dichloropropane	UG/M3	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.56 U	⁸ 0.56 U	0.56 U	0.56 U	0.56 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.3	0.39 U	0.39 U	0.39 U	0.39 U
1,3-Dichlorobenzene	UG/M3	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,3-Dichloropropene (cis)	UG/M3	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
1,3-Dichloropropene (trans)	UG/M3	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
1,4-Dichlorobenzene	UG/M3	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dioxane	UG/M3	0.72 U	0.72 U	1.2	0.72 U	0.72 U
2,2,4-Trimethylpentane	UG/M3	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
4-Methyl-2-pentanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/16/19 Checked By: GEK 10/16/19

Detection Limits shown are PQL

Location ID Sample ID		B37-IA-02	B37-IA-03	OUTDOOR AIR-2	P1-IA-01	P1-IA-02
		837-IA-02	B37-IA-03	OA-02	P1-IA-01	P1-IA-02
Matrix		indoor Air	Indoor Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	•	-
Date Sampled		09/27/19	09/27/19	09/27/19	09/27/19	09/27/19
Parameter	Units				:	
Volatile Organic Compounds						
Benzene	UG/M3	0.26 U	0.40	0.26 U	0.26 U	0.26 U
Benzyl chloride	UG/M3	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	0.54 U
Bromoform	UG/M3	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Bromomethane	UG/M3	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Carbon tetrachloride	UG/M3	0.40	0.44	0.42	0.46	0.44
Chlorobenzene	UG/M3	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	UG/M3	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform	UG/M3	0.39 U	0.45	0.39 U	0.39 U	0.39 U
Chloromethane	UG/M3	0.99	0.89	1.4	0.88	0.91
Cyclohexane	UG/M3	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Dibromochloromethane	UG/M3	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U
Dichlorodifluoromethane	UG/M3	0.93	1.0	0.80	0.89	0.84
Ethanol	UG/M3	34	6.2	3.8 U	3.8 U	6.0
Ethylbenzene	UG/M3	0.35 U	0.35 U	0.35 U	0.35 U	2.7
lexachiorobutadiene	UG/M3	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
Hexane	UG/M3	0.70 U	0.70 U	0.70 U	0.70 U	0.85
n&p-Xylene	UG/M3	0.69	0.67	0.35 U	0.93	9.8
Methyl ethyl ketone (2-Butanone)	UG/M3	1.8	1.1	0.94 U	6.6	79 D
Nethyl tert-butyl ether	UG/M3	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U
Methylene chloride	UG/M3	3.9 J	1.7 U	1.1 J	2.4 U	2.1 U
o-Xylene	UG/M3	0.35 U	0.35 U	0.35 U	0.35 U	2.7
Styrene	UG/M3	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/16/19 Checked By: GEK 10/16/19

Location ID		B37-IA-02	B37-IA-03	OUTDOOR AIR-2	P1-IA-01	P1-IA-02
Sample ID		B37-IA-02	B37-!A-03	OA-02	P1-IA-01	P1-IA-02
Matrix		Indoor Air	Indoor Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)			•	-	-	-
Date Sampled		09/27/19	09/27/19	09/27/19	09/27/19	09/27/19
Parameter	Units	2				
Volatile Organic Compounds						
art-Butyl alcohol	UG/M3	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
etrachloroethene	UG/M3	0.54 U	0.54 U	0.99	0.54 U	0.57
oluene	UG/M3	0.85	0.89	0.88	14	170 D
richloroethene	UG/M3	0.97	0.20	0.53	0.19 U	0.53
richlorofluoromethane	UG/M3	1.2	1.6	0.91	1.1	1.0
'inyl chloride	UG/M3	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/16/19 Checked By: GEK 10/16/19

Detection Limits shown are PQL

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Location ID		PB-IA-01	PB-IA-03	PB-IA-05	
Sample ID		PB-IA-01	PB-IA-03	PB-IA-05	
Matrix	Indoor Air	Indoor Air	Indoor Air		
Depth interval (ft)			-	-	
Date Sampled	10	09/27/19	09/27/19	09/27/19	
Parameter	Units	-			
Volatile Organic Compounds				R.	
1,1,1-Trichloroethane	UG/M3	1.6	1.6 J	0.69	
1,1,2,2-Tetrachloroethane	UG/M3	0.55 U	0.55 UJ	0.55 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.61 U	0.61 UJ	0.61 U	
1,1,2-Trichloroethane	UG/M3	0.44 U	0.44 UJ	0.44 U	
1,1-Dichloroethane	UG/M3	0.32 U	0.56 J	0.32 U	
1,1-Dichloroethene	UG/M3	0.16 U	0.16 UJ	0.16 U	
1,2,4-Trichlorobenzene	UG/M3	0.59 U	0.59 UJ	0.59 U	
1,2,4-Trimethylbenzene	UG/M3	0.39 U	0.39 UJ	0.78	
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	0.61 U	0.61 UJ	0.61 U	
1,2-Dichlorobenzene	ି UG/M3	0.48 U	0.48 UJ	0.48 U	
1,2-Dichloroethane	UG/M3	0.32 U	0.91 J	0.32 U	
1,2-Dichloroethene (cis)	UG/M3	0.16 U	0.26 J	0.17	
1,2-Dichloroethene (trans)	UG/M3	6.8	5.3 J	0.32 U	
1,2-Dichloropropane	UG/M3	0.37 U	0.37 UJ	0.37 U	
1,2-Dichlorotetrafluoroethane	UG/M3	0.56 U	0.56 UJ	0.56 U	
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.39 U	0.39 UJ	0.39 U	
1,3-Dichlorobenzene	⁼ UG/M3	0.48 U	0.48 UJ	0.48 U	
I,3-Dichloropropene (cis)	UG/M3	0.36 U	0.36 UJ	0.36 U	
I,3-Dichloropropene (trans)	UG/M3	0.36 U	0.36 UJ	0.36 U	
I,4-Dichlorobenzene	UG/M3	0.48 U	0.48 UJ	0.48 U	
1,4-Dioxane	UG/M3	0.72 U	0.72 UJ	0.72 U	
2,2,4-Trimethylpentane	UG/M3	0.93 U	0.93 UJ	0.93 U	
1-Methyl-2-pentanone	UG/M3	0.82 U	1.4 J	0.82 U	

Flags assigned during chemistry validation are shown.

Made By: AMK 10/16/19 Checked By: GEK 10/16/19

Location ID	PB-IA-01	PB-IA-03	PB-1A-05	
Sample ID		PB-IA-01	PB-IA-03	PB-1A-05
Matrix	Indoor Air	Indoor Air	Indoor Air	
Depth Interval (ft)	····	-	-	-
Date Sampled		09/27/19	09/27/19	09/27/19
Parameter	Units			
Volatile Organic Compounds			~	
Benzene	UG/M3	0.26 U	0.26 UJ	0.26 U
Benzyl chloride	UG/M3	0.83 U	0.83 UJ	0.83 U
Bromodichloromethane	UG/M3	0.54 U	0.54 UJ	0.54 U
Bromoform	UG/M3	0.83 U	0.83 UJ	0.83 U
Bromomethane	UG/M3	0.31 U	0.31 UJ	0.31 U
Carbon tetrachloride	UG/M3	0.47	0.43 J	0.45
Chlorobenzene	UG/M3	0.37 U	0.37 UJ	0.37 U
Chloroethane	UG/M3	0.21 U	0.21 UJ	0.21 U
Chloroform	UG/M3	0.39 U	0.39 UJ	0.39 U
Chloromethane	UG/M3	1.3	0.91 J	0.82
Cyclohexane	UG/M3	0.69 U	0.69 UJ	0.69 U
Dibromochloromethane	UG/M3	0.68 U	0.68 UJ	0.68 U
Dichlorodifluoromethane	UG/M3	0.97	0.86 J	0.86
Ethanol	UG/M3	11	93 J	64
Ethylbenzene	UG/M3	0.35 U	0.99 J	0.35 U
Hexachlorobutadiene	UG/M3	0.85 U	0.85 UJ	0.85 U
lexane	UG/M3	0.70 U	0.70 UJ	6.1
n&p-Xylene	UG/M3	1.2	3.7 J	0.97
Aethyl ethyl ketone (2-Butanone)	UG/M3	5.1	15 J	1.4
Aethyl tert-butyl ether	UG/M3	0.58 U	0.58 UJ	0.58 U
Nethylene chloride	UG/M3	5.3 J	68 DJ	2.1 U
o-Xylene	UG/M3	0.44	1.1 J	0.35
Styrene	UG/M3	0.34 U	0.34 UJ	0.34 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/16/19 Checked By: GEK 10/16/19

Location ID		PB-IA-01	PB-IA-03	PB-IA-05	
Sample ID		PB-IA-01	PB-IA-03	PB-IA-05	
Matrix		Indoor Air	Indoor Air	Indoor Air	
Depth Interval (ft)		•	-	-	
Date Sampled		09/27/19	09/27/19	09/27/19	
Parameter	Units	-		=	
Volatile Organic Compounds					
ert-Butyl alcohol	UG/M3	0.97 U	0.97 UJ	0.97 U	
Fetrachloroethene	UG/M3	1.2	1.3 J	1.5	
Foluene	UG/M3	9.8	43 J	2.9	
Trichloroethene	UG/M3	0.78	0.58 J	0.83	
Trichlorofluoromethane	UG/M3	1.1	1.1 J	1.5	
/inyl chloride	UG/M3	0.10 U	0.10 UJ	0.10 U	

Flags assigned during chemistry validation are shown.

Made By: AMK 10/16/19 Checked By: GEK 10/16/19

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ATTACHMENT A VALIDATED FORM I'S

FORM I AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: B31-IA-01	Lab Sample ID: 140-16796-1				
Matrix: Air	Lab File ID: RI30P101.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:35				
Sample wt/vol: 500(mL)	Date Analyzed: 09/30/2019 19:14				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33985	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND	1	0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	1.4		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND	1	0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND	*	0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	1.8		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND	1	0.93	
78-93-3	2-Butanone	72.11	1.8		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	0.83		0.26	
100-44-7	Benzyl chloride	126.58	ND	×	0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.45		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	0.96		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	2.4		0.69	
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10/10/2019

FORM I AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1			
SDG No.:				
Client Sample ID: B31-IA-01	Lab Sample ID: 140-16796-1			
Matrix: Air	Lab File ID: RI30P101.D			
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:35			
Sample wt/vol: 500(mL)	Date Analyzed: 09/30/2019 19:14			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)			
ዩ Moisture:	Level: (low/med) Low			
Analysis Batch No.: 33985	Units: ug/m3			

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND	_	0.68
75-71-8	Dichlorodifluoromethane	120.91	1.1		0.40
64-17-5	Ethanol	46.07	7.3		3.8
100-41-4	Ethylbenzene	106.17	ND		0.35
87-68-3	Hexachlorobutadiene	260.76	1.4		0.85
110-54-3	Hexane	86.17	ND		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	ND 2.0	P O	0.69 20
179601-23-1	m-Xylene & p-Xylene	106.17	0.39		0.35
95-47-6	o-Xylene	106.17	ND		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	7.7		0.97
127-18-4	Tetrachloroethene	165.83	ND		0.54
108-88-3	Toluene	92.14	1.6		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	0.47		0.19
75-69-4	Trichlorofluoromethane	137.37	1.0		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS	
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140	

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FORM I AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1			
SDG No.:				
Client Sample ID: B31-IA-02	Lab Sample ID: 140-16796-2			
Matrix: Air	Lab File ID: RI30P102.D			
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 10:24			
Sample wt/vol: 500(mL)	Date Analyzed: 09/30/2019 20:09			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 33985	Units: ug/m3			

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND	,	0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND	*	0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	1.4	1	0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	1.6		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	0.30	,	0.26	
100-44-7	Benzyl chloride	126.58	ND	*	0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.42		0.20	
108-90-7	Chlorobenzene	112.56	ND	-	0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	1.2		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	7.5		0.69	

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: B31-IA-02	Lab Sample ID: 140-16796-2				
Matrix: Air	Lab File ID: RI30P102.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 10:24				
Sample wt/vol: 500(mL)	Date Analyzed: 09/30/2019 20:09				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)				
ቶ Moisture:	Level: (low/med) Low				
Analysis Batch No.: 33985	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	0.99		0.40	
64-17-5	Ethanol	46.07	10		3.8	4
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	1.3		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	ND 1.2	B	0.69	<u>п,ч</u>
179601-23-1	m-Xylene & p-Xylene	106.17	0.59		0.35	
95-47-6	o-Xylene	106.17	ND		0.35	-
100-42-5	Styrene	104.15	0.53		0.34	
75-65-0	t-Butyl alcohol	74.12	9.3		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	1.5		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	0.29		0.19	
75-69-4	Trichlorofluoromethane	137.37	1.3		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1
SDG No.:	
Client Sample ID: B35-IA-01	Lab Sample ID: 140-16796-3
Matrix: Air	Lab File ID: RJ019P103.D
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:31
Sample wt/vol: 50(mL)	Date Analyzed: 10/01/2019 14:51
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)
ቶ Moisture:	Level: (low/med) Low
Analysis Batch No.: 33986	Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND	R	4.4	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		5.5	
79-00-5	1,1,2-Trichloroethane	133.41	ND		4.4	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		6.1	
75-34-3	1,1-Dichloroethane	98.96	ND		3.2	
75-35-4	1,1-Dichloroethene	96.94	ND		1.6	~
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		5.9	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		3.9	
106-93-4	1,2-Dibromoethane	187.87	ND		6.1	
95-50-1	1,2-Dichlorobenzene	147.00	ND		4.8	
107-06-2	1,2-Dichloroethane	98.96	ND		3.2	
78-87-5	1,2-Dichloropropane	112.99	ND		3.7	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		5.6	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		3.9	
541-73-1	1,3-Dichlorobenzene	147.00	40		4.8	
106-46-7	1,4-Dichlorobenzene	147.00	16		4.8	
123-91-1	1,4-Dioxane	88.11	ND		7.2	
540-84-1	2,2,4-Trimethylpentane	114.23	12		9.3	
78-93-3	2-Butanone	72.11	12		9.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	14	CI	8.2	
71-43-2	Benzene	78.11	5.6		2.6	
100-44-7	Benzyl chloride	126.58	ND		8.3	
75-27-4	Bromodichloromethane	163.83	ND		5.4	
75-25-2	Bromoform	252.75	ND		8.3	
74-83-9	Bromomethane	94.94	ND		3.1	
56-23-5	Carbon tetrachloride	153.81	4.8		2.0	
108-90-7	Chlorobenzene	112.56	ND		3.7	- 200 5.
75-00-3	Chloroethane	64.52	ND		2.1	
67-66-3	Chloroform	119.38	ND		3.9	
74-87-3	Chloromethane	50.49	11		4.1	
156-59-2	cis-1,2-Dichloroethene	96.94	ND	+-+	1.6	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		3.6	
110-82-7	Cyclohexane	84.16	ND		6.9	

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: B35-IA-01	Lab Sample ID: 140-16796-3				
Matrix: Air	Lab File ID: RJ019P103.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:31				
Sample wt/vol: 50(mL)	Date Analyzed: 10/01/2019 14:51				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33986 Units: ug/m3					

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND	RI	6.8	
75-71-8	Dichlorodifluoromethane	120.91	8.3	1	4.0	
64-17-5	Ethanol	46.07	760		38	
100-41-4	Ethylbenzene	106.17	20		3.5	
87-68-3	Hexachlorobutadiene	260.76	ND		8.5	
110-54-3	Hexane	86.17	ND		7.0	
1634-04-4	Methyl tert-butyl ether	88.15	ND		5.8	
75-09-2	Methylene Chloride	84.93	29	В	6.9	
179601-23-1	m-Xylene & p-Xylene	106.17	51		3.5	
95-47-6	o-Xylene	106.17	13		3.5	
100-42-5	Styrene	104.15	ND		3.4	
75-65-0	t-Butyl alcohol	74.12	370		9.7	
127-18-4	Tetrachloroethene	165.83	300		5.4	
108-88-3	Toluene	92.14	65		4.5	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		3.2	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		3.6	
79-01-6	Trichloroethene	131.39	8.3		1.9	·
75-69-4	Trichlorofluoromethane	137.37	9.6		4.5	
75-01-4	Vinyl chloride	62.50	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1			
SDG No.:				
Client Sample ID: FD 092719	Lab Sample ID: 140-16796-7			
Matrix: Air	Lab File ID: RJ019P107.D			
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 00:00	*		
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 18:34			
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)	-		
<pre>% Moisture:</pre>	Level: (low/med) Low			
Analysis Batch No.: 33986	Units: ug/m3			

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	,
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	9 110	E	0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND	· · ·	0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	ND		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.88	eí	0.82	
71-43-2	Benzene	78.11	0.52		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.44		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	1.0		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	2.28.5.5

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1			
SDG No.:	52			
Client Sample ID: FD 092719	Lab Sample ID: 140-16796-7			
Matrix: Air	Lab File ID: RJ019P107.D			
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 00:00			
Sample wt/vol: 500(mL) Date Analyzed: 10/01/2019 18:3				
Soil Aliquot Vol:	Dilution Factor: 1			
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 33986	Units: ug/m3			

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	·
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	0.85	†	0.40	
64-17-5	Ethanol	46.07	75	<u>.</u>	3.8	
100-41-4	Ethylbenzene	106.17	1.1	tt	0.35	•
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	1.1
110-54-3	Hexane	86.17	ND		0.70	-
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	1.5	B	0.69	
179601-23-1	m-Xylene & p-Xylene	106.17	7.3		0.35	
95-47-6	o-Xylene	106.17	2.3		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	43		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	1.6		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	0.36		0.19	
75-69-4	Trichlorofluoromethane	137.37	0.96		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1
SDG No.:	
Client Sample ID: FD 092719 DL	Lab Sample ID: 140-16796-7 DL
Matrix: Air	Lab File ID: RJ02P105.D
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 00:00
Sample wt/vol: 50(mL)	Date Analyzed: 10/02/2019 16:38
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)
<pre>% Moisture:</pre>	Level: (low/med) Low
Analysis Batch No.: 33987	Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	9	RL	
541-73-1	1,3-Dichlorobenzene	147.00	91	ď	4.8	

CAS NO.	SURROGATE	/	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)		98		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1			
SDG No.:				
Client Sample ID: B37-IA-01	Lab Sample ID: 140-16796-4			
Matrix: Air	Lab File ID: RJ019P104.D			
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 07:57			
Sample wt/vol: 745(mL)	Date Analyzed: 10/01/2019 15:46			
Soil Aliquot Vol:	Dilution Factor: 1.49			
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)			
<pre>% Moisture:</pre>	Level: (low/med) Low			
Analysis Batch No.: 33986	Units: ug/m3			

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND	+	0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.1		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	15
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	10		0.94	_
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.41		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	0.97		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	100

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1			
SDG No.:				
Client Sample ID: B37-IA-01	Lab Sample ID: 140-16796-4			
Matrix: Air	Lab File ID: RJ019P104.D			
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 07:57			
Sample wt/vol: 745(mL)	Date Analyzed: 10/01/2019 15:46			
Soil Aliquot Vol:	Dilution Factor: 1.49			
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)			
<pre>% Moisture:</pre>	Level: (low/med) Low			
Analysis Batch No.: 33986	Units: ug/m3			

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	0.97		0.40	
64-17-5	Ethanol	46.07	7.1		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	0.82		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	ND -1-3	₽	0.69	1.4
179601-23-1	m-Xylene & p-Xylene	106.17	1.0		0.35	
95-47-6	o-Xylene	106.17	0.41		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	3.5		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	0.62		0.19	
75-69-4	Trichlorofluoromethane	137.37	2.3		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1			
SDG No.:				
Client Sample ID: B37-IA-02	Lab Sample ID: 140-16796-5			
Matrix: Air	Lab File ID: RJ019P105.D			
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 08:00			
Sample wt/vol: 765(mL)	Date Analyzed: 10/01/2019 16:41			
Soil Aliquot Vol:	Dilution Factor: 1.53			
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)			
<pre>% Moisture:</pre>	Level: (low/med) Low			
Analysis Batch No.: 33986	Units: ug/m3			

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q ·	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	_
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	4.8		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND	1	0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	1.3		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	1.8	1	0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.40		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	0.99		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	-

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1			
SDG No.:				
Client Sample ID: B37-IA-02	Lab Sample ID: 140-16796-5			
Matrix: Air	Lab File ID: RJ019P105.D			
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 08:00			
Sample wt/vol: 765(mL)	Date Analyzed: 10/01/2019 16:41			
Soil Aliquot Vol:	Dilution Factor: 1.53			
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)			
% Moisture:	Level: (low/med) Low			
Analysis Batch No.: 33986	Units: ug/m3			

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	0.93		0.40	
64-17-5	Ethanol	46.07	34		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	3.9	B	0.69	
179601-23-1	m-Xylene & p-Xylene	106.17	0.69		0.35	
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	0.85	-	0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	0.97		0.19	
75-69-4	Trichlorofluoromethane	137.37	1.2		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1
SDG No.:	
Client Sample ID: B37-IA-03	Lab Sample ID: 140-16796-6
Matrix: Air	Lab File ID: RJ019P106.D
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 10:19
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 17:37
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)
<pre>% Moisture:</pre>	Level: (low/med) Low
Analysis Batch No.: 33986	Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND	1	0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.92		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND	-	0.93	
78-93-3	2-Butanone	72.11	1.1		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	0.40		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.44		0.20	
108-90-7	Chlorobenzene	112.56	ND -		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	0.45		0.39	
74-87-3	Chloromethane	50.49	0.89		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	10 - 10 A - 10 - 10 - 10 - 10 - 10 - 10
110-82-7	Cyclohexane	84.16	ND		0.69	

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1
SDG No.:	
Client Sample ID: B37-IA-03	Lab Sample ID: 140-16796-6
Matrix: Air	Lab File ID: RJ019P106.D
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 10:19
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 17:37
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)
<pre>% Moisture:</pre>	Level: (low/med) Low
Analysis Batch No.: 33986	Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	1.0		0.40	
64-17-5	Ethanol	46.07	6.2		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	NDIA	B	0.69 1.	1
179601-23-1	m-Xylene & p-Xylene	106.17	0.67		0.35	,
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	0.89		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	10000
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	0.20		0.19	
75-69-4	Trichlorofluoromethane	137.37	1.6		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1
SDG No.:	
Client Sample ID: P1-IA-01	Lab Sample ID: 140-16796-8
Matrix: Air	Lab File ID: RJ019P108.D
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:48
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 19:30
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)
<pre>% Moisture:</pre>	Level: (low/med) Low
Analysis Batch No.: 33986	Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	-
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND	-	0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	-
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	6.6		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.46		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	0.88		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: P1-IA-01	Lab Sample ID: 140-16796-8				
Matrix: Air	Lab File ID: RJ019P108.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:48				
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 19:30				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	0.89	+	0.40	
64-17-5	Ethanol	46.07	ND	t	3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	2.4	в	0.69	2.4
179601-23-1	m-Xylene & p-Xylene	106.17	0.93		0.35	
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	14		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	4.4		0.32	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	ND		0.19	
75-69-4	Trichlorofluoromethane	137.37	1.1		0.45	·····
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

CASK 10119

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: P1-IA-02	Lab Sample ID: 140-16796-9				
Matrix: Air	Lab File ID: RJ019P109.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:45				
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 20:27				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	1.0		0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	79 -80-	ED	0.94	16
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND	_	0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.44		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND	-	0.39	
74-87-3	Chloromethane	50.49	0.91		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND	1	0.69	

FORM I TO 15 LL

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: P1-IA-02	Lab Sample ID: 140-16796-9				
Matrix: Air	Lab File ID: RJ019P109.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:45				
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 20:27				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	0.84	tt	0.40	
64-17-5	Ethanol	46.07	6.0		3.8	
100-41-4	Ethylbenzene	106.17	2.7		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	0.85		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	2.1	B	0.69	al
179601-23-1	m-Xylene & p-Xylene	106.17	9.8		0.35	
95-47-6	o-Xylene	106.17	2.7		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	0.57		0.54	
108-88-3	Toluene	92.14	170-110	ED	0.45	7.5
156-60-5	trans-1,2-Dichloroethene	96.94	74 76-	B	0.32	53
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	0.53		0.19	
75-69-4	Trichlorofluoromethane	137.37	1.0		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1
SDG No.:	
Client Sample ID: P1-IA-02 DL	Lab Sample ID: 140-16796-9 DL
Matrix: Air	Lab File ID: RJ02P106.D
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:45
Sample wt/vol: 30(mL)	Date Analyzed: 10/02/2019 17:27
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: <u>0.32(mm)</u>
<pre>% Moisture:</pre>	Level: (low/med) Low
Analysis Batch No.: 33987	Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	0	RL	
78-93-3	2-Butanone	72.11	79	D T	16	
108-88-3	Toluene	92.14	170	D	7.5	
156-60-5	trans-1,2-Dichloroethene	96.94	74	D	5.3	

CAS NO.	SURROGATE		%REC	Q	LIMITS
460-00-4 4-Bromofluorobenzene (Surr)			91		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: PB-IA-01	Lab Sample ID: 140-16796-10				
Matrix: Air	Lab File ID: RJ019P110R.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 10:29				
Sample wt/vol: 500(mL)	Date Analyzed: 10/02/2019 08:48				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)				
% Moisture:	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	1.6	1	0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND .		0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	5.1		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.47		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	1.3		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1
SDG No.:	
Client Sample ID: PB-IA-01	Lab Sample ID: 140-16796-10
Matrix: Air	Lab File ID: RJ019P110R.D
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 10:29
Sample wt/vol: 500(mL)	Date Analyzed: 10/02/2019 08:48
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)
ቶ Moisture:	Level: (low/med) Low
Analysis Batch No.: 33986	Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	0.97		0.40	
64-17-5	Ethanol	46.07	11		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	5.3	B	0.69	
179601-23-1	m-Xylene & p-Xylene	106.17	1.2		0.35	
95-47-6	o-Xylene	106.17	0.44		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	1.2		0.54	
108-88-3	Toluene	92.14	9.8		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	6.8		0.32	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	0.78		0.19	
75-69-4	Trichlorofluoromethane	137.37	1.1		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4 4-Bromofluorobenzene (Surr)		96		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: PB-IA-03	Lab Sample ID: 140-16796-11				
Matrix: Air	Lab File ID: RJ019P111.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 08:47				
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 22:14				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	1.6	5	0.44
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND	25	0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	0.56	K	0.32
75-35-4	1,1-Dichloroethene	96.94	ND	UT	0.16
120-82-1	1,2,4-Trichlorobenzene	181.45	ND	1	0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND	J.	0.48
107-06-2	1,2-Dichloroethane	98.96	0.91		0.32
78-87-5	1,2-Dichloropropane	112.99	ND	ITT	0.37
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND	1	0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND	T	0.93
78-93-3	2-Butanone	72.11	15		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.4	J	0.82
71-43-2	Benzene	78.11	ND	12-5	0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.43	-	0.20
108-90-7	Chlorobenzene	112.56	ND	UT	0.37
75-00-3	Chloroethane	64.52	ND	1	0.21
67-66-3	Chloroform	119.38	ND	1	0.39
74-87-3	Chloromethane	50.49	0.91	CÍ	0.41
156-59-2	cis-1,2-Dichloroethene	96.94	0.26		0.16
10061-01-5	cis-1,3-Dichloropropene	110.97	ND	UT	0.36
110-82-7	Cyclohexane	84.16	ND	~~~	0.69

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: PB-IA-03	Lab Sample ID: 140-16796-11				
Matrix: Air	Lab File ID: RJ019P111.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 08:47				
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 22:14				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND	055	0.68
75-71-8	Dichlorodifluoromethane	120.91	0.86	T	0.40
64-17-5	Ethanol	46.07	93	1	3.8
100-41-4	Ethylbenzene	106.17	0.99	T	0.35
87-68-3	Hexachlorobutadiene	260.76	ND	UJ	0.85
110-54-3	Hexane	86.17	ND	1	0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND	L	0.58
75-09-2	Methylene Chloride	84.93	68 60	E B	0.69
179601-23-1	m-Xylene & p-Xylene	106.17	3.7	-	0.35
95-47-6	o-Xylene	106.17	1.1	7	0.35
100-42-5	Styrene	104.15	ND	UT	0.34
75-65-0	t-Butyl alcohol	74.12	ND	UJ	0.97
127-18-4	Tetrachloroethene	165.83	1.3	T	0.54
108-88-3	Toluene	92.14	43	Ĩ	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	5.3	J	0.32
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND	UJ	0.36
79-01-6	Trichloroethene	131.39	0.58	T	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	J.	0.45
75-01-4	Vinyl chloride	62.50	ND	IT	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4 4-Bromofluorobenzene (Surr)		95		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1
SDG No.:	
Client Sample ID: PB-IA-03 DL	Lab Sample ID: 140-16796-11 DL
Matrix: Air	Lab File ID: RJ02P107.D
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 08:47
Sample wt/vol: 150(mL)	Date Analyzed: 10/02/2019 18:15
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)
ቆ Moisture:	Level: (low/med) Low
Analysis Batch No.: 33987	Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
75-09-2	Methylene Chloride	84.93	68	D	2.3	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	 95		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:	-				
Client Sample ID: PB-IA-05	Lab Sample ID: 140-16796-12				
Matrix: Air	Lab File ID: RJ019P112.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 10:50				
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 23:09				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	0.69		0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND	1	0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.78		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND	· •	0.32	
78-87-5	1,2-Dichloropropane	112.99	ND	+	0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	1.4	· - + -	0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.45		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	0.82	+	0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	0.17		0.16	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: PB-IA-05	Lab Sample ID: 140-16796-12				
Matrix: Air	Lab File ID: RJ019P112.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 10:50				
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 23:09				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	0.86		0.40
64-17-5	Ethanol	46.07	64		3.8
100-41-4	Ethylbenzene	106.17	ND		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	6.1		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	N 2-1-	В	0.69 2
179601-23-1	m-Xylene & p-Xylene	106.17	0.97		0.35
95-47-6	o-Xylene	106.17	0.35		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	1.5		0.54
108-88-3	Toluene	92.14	2.9		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	0.83		0.19
75-69-4	Trichlorofluoromethane	137.37	1.5		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

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Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: OA-02	Lab Sample ID: 140-16796-13				
Matrix: Air	Lab File ID: RJ019P113.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019 09:15				
Sample wt/vol: 720(mL)	Date Analyzed: 10/02/2019 00:06				
Soil Aliquot Vol:	Dilution Factor: 1.44				
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	•
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethan e	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoro ethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND	1	0.16	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	i
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	*
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroe thane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	1.2		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	ND		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.42		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	1.4		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.16	25. 225
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND	· _	0.69	

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID: OA-02	Lab Sample ID: 140-16796-1	3			
Matrix: Air	Lab File ID: RJ019P113.D				
Analysis Method: TO 15 LL	Date Collected: 09/27/2019	09:15			
Sample wt/vol: 720(mL)	Date Analyzed: 10/02/2019 00:06				
Soil Aliquot Vol:	Dilution Factor: 1.44				
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33986	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND	· · · ·	0.68	
75-71-8	Dichlorodifluoromethane	120.91	0.80		0.40	
64-17-5	Ethanol	46.07	ND	tt	3.8	
100-41-4	Ethylbenzene	106.17	ND	† †	0.35	
87-68-3	Hexachlorobutadiene	260.76	ND	1	0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	1.1	B	0.69	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35	
95-47-6	o-Xylene	106.17	ND	• • • • •	0.35	
100-42-5	Styrene	104.15	ND	+	0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	0.99		0.54	
108-88-3	Toluene	92.14	0.88		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	0.53		0.19	
75-69-4	Trichlorofluoromethane	137.37	0.91		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

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ATTACHMENT B

SUPPORT DOCUMENTATION

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Client Contact Information
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me:9-27-49/h 50 Samples Received by:
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| : ANN MARTE KROPOUTICH (CONTACT PRIDA TO RUMPING DILUTIONS @716-923
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 | : ANN MARIE KROPOUTICH (CONTART PRICOR TO RUMBUL DELUTIONS @716-923
m:5-27-19/150 Samples Received by:
G:[27/19/1700 Recover of 9/3/19 ETA 09/0 17 | ANN MARIE KROPOUTICH (COUTART PRIDA TO RUMMING DIWTOWS @716-923
me-9-27-49/h 50 Samples Received by:
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 | ANN MARIE KROPOVITCH (COUTACT PRIDATO RUNNIM DIWITOWS | |
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Kropovitch, Ann Marie

From:	Dusel, Chuck
Sent:	Wednesday, October 16, 2019 10:32 AM
To:	Gorton, Lisa A (DEC)
Cc:	McDaid, Daniel; Kisluk, George; Kropovitch, Ann Marie; 'Harrington, David (DEC)'
Subject:	FW: Lapp Insulator sample B35-IA-01 invalid

See email chain below.

From: Kropovitch, Ann Marie <ann.marie.kropovitch@aecom.com>
Sent: Wednesday, October 16, 2019 10:13 AM
To: Dusel, Chuck <chuck.dusel@aecom.com>
Cc: Kisluk, George <george.kisluk@aecom.com>
Subject: FW: Lapp Insulator sample B35-IA-01 invalid

Hi All,

To summarize the results for sample B35-IA-01 should be considered invalid. Please see labs explanation below.

Thanks, Ann Marie

From: McKinney, Jamie <<u>Jamie.McKinney@testamericainc.com</u>> Sent: Wednesday, October 16, 2019 9:41 AM To: Kropovitch, Ann Marie <<u>ann.marie.kropovitch@aecom.com</u>> Subject: RE: Question of WO#140-16796-1 Lapp Insulator

Hi Ann Marie,

All the calculations were reviewed and were correct.

The historical information on the use of canister 10040 which was used on sample 140-16796-3 was reviewed. The canister was confirmed to have been batch certified in canister cleaning job 140-16453. Prior to that the canister was returned unused with job 140-16424 without any flow controller association. As part of the investigation, the summa canister valve was removed and the canister was rinsed with methanol. The resulting rinsate showed some particulates in the canister. The particulates are suspected of causing false positives in the reported sample results. The laboratory believes that the canister returned as unused from the previous job was actually used without a flow controller and particulate filter which caused the presence of debris in the canister. Canister 10040 has been segregated for additional testing. The reported results for sample 140-16796-3 should be considered invalid. Please let me know if you have other questions.

Jamie

Jamie McKinney

Phone: 865-291-3051

E-mail: jamie.mckinney@testamericainc.com

From: Kropovitch, Ann Marie [mailto:ann.marie.kropovitch@aecom.com] Sent: Friday, October 11, 2019 4:22 PM To: McKinney, Jamie

Cc: Lange, Diane Subject: RE: Question of WO#140-16796-1 Lapp Insulator

-External Email-

Hi Jaime, Diane,

Can you please have the lab look at samples 140-16796-3 and 140-16796-7 and recheck the calcs, ect.... These samples are dups of each other and the results are really different. One of the things that is odd is that we have a high concentration of PCE in sample -3 (amongst other compounds). I checked the old air results in our database for that sample point and it has never even been close to being that high for PCE and the other compounds. Of course the FD is a lot lower or even non-detect for the same compounds.

Thanks, Ann Marie

Ann Marie Kropovitch Environmental Chemist, Environment Upstate NY D +716-923-1137 Ann.Marie.Kropovitch@aecom.com

AECOM 257 West Genesee Street Suite 400 Buffalo, NY 14202-2657, United States T +716-856-5636 aecom.com

Built to deliver a better world

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Comments

No additional comments.

Receipt

The samples were received on 9/28/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA

Method(s) TO 15 LL, TO-14A, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by Eurofins TestAmerica Knoxville.

Method(s) TO 15 LL: The continuing calibration verification (CCV) associated with batch 140-33985 exhibited % difference of > 30% for the following analyte(s) 1,2-Dichlorobenzene and Benzyl chloride; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO 15 LL: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 140-33985: 1,2-Dichlorobenzene and Benzyl chloride. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO 15 LL: The method blank for analytical batch 140-33985 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated sample(s) were not re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL. Only samples B31-IA-01 (140-16796-1) and B31-IA-02 (140-16796-2) were affected. The result was "B" qualified.

Method(s) TO 15 LL: The method blank for analytical batch 140-33986 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated sample(s) were not re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL. Samples B35-IA-01 (140-16796-3), B37-IA-01 (140-16796-4), B37-IA-02 (140-16796-5), B37-IA-03 (140-16796-6), FD 092719 (140-16796-7), P1-IA-01 (140-16796-8), P1-IA-02 (140-16796-9), PB-IA-01 (140-16796-10), PB-IA-03 (140-16796-11), PB-IA-05 (140-16796-12) and OA-02 (140-16796-13) were affected. The result was "B" qualified

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Lab Name: Eurofins TestAmerica,	ı, Knoxvill	lle	Job No	0.: 140-1	6796			5	Analy	Batch]	No.: 33	3257	
SDG No.:	5										ŀ		
Instrument ID: MR			6C Co.	Column: R'	RTX-5	Ð	: 0.3	2 (mm)	Heated	Purge	(N/X) :	N	
Calibration Start Date: 09/03/	2019 10	:26	Calibra	tion	End Date	•	9/04/20	19 09:04	Calibration		ID: 211	8	
ANALYTE			RF			CURVE	Ŭ	COEFFICIENT	# MIN RRF	&RSD	# MAX	R^2	# MIN R^2
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 8 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	ТҮРЕ	<u>д</u>	ZM EM	-	÷	&RSD	OR COD	OR COD
Trichlorofluoromethane	+++++ 3.3282	3.3774 3.3203	3.0491 3.2570	3.3050 3.1386	3.4667 3.0258	Ave		3.2520		4.6	30.0		
Acrolein	+++++ 0.3645	+++++ 0.3873	+++++	17 .	.4416 .3410	Ave		0.3855		11.3	30.0		
Acetonitrile	+++++ 0.6425	+++++ 0.6542	+++++ 0.6025	.4649		Ave		0.5751		11.4	30.0		
Acetone	+++++ 0.6576	+++++ 0.6345	+++++ 0.5939			Ave		0.6380		20.7	30.0		
Pentane	+++++ 0.2223		+++++ 0.2318	.2204		Ave		0.2289		3.9	30.0		
Isopropyl alcohol	2.0445 1.8052		1.9329	.8817		Ave		1.8684	-	6.6	30.0		
Ethyl ether	1.5177	+++++ 1.6254	1.5133	.7440		Ave		1.5607		8.2	30.0		
1,1-Dichloroethene	1.2768	1.3859 1.2885	1.2342		1.3854	Ave		1.3006	-	6.2	30.0		
Acrylonitrile	+++++	1.0127	+++++	.9002		Ave		0.9589		5.9	30.0		
t-Butyl alcohol	+++++ 2.2589	+++++ 2.4248	2.6173	.3278		Ave		2.3187		6.8	30.0		
1,1,2-Trichlorotrifluoroethane	+++++ 2.6175	+++++ 2.7892	2.7427	.0147	2.9235	Ave		2.7491		5.6	30.0		
Methylene Chloride	+++++ 1.3354	+++++ 1.2126	1.1602	.6564		Ave		1.5433		38.7	* 30.0		
	+++++ 1.2873	+++++ 1.3056	1.3978	1.3442 1.1350	1.4259	Ave		1.2753		di di	30.0		
Carbon disulfide	+++++ 3.4529	+++++ 3.5063	3.4533 3.4547	3.3067 3.3496		Ave		3.4186	-	4.8	30.0		
trans-1,2-Dichloroethene	1.3377	1.4290	1.3966 1.4046	1.4119 1.3783		Ave		1.4006		2.7	30.0		
ylpentane	3.2013	3.5636 3.4610	3.3036 3.3080	.3865		Ave		3.3061	_	6.5	30.0		
Methyl tert-butyl ether	+++++ 3.3757	+++++ 3.4980	3.2509 3.4526	.3858 .2852		Ave		3.3696		4.6	30.0		
- b	+++++	2.5086 2.4366	2.3878 2.3574	.6268 .2552	2.5766 2.1291	Ave		2.4059		6.4	30.0		
Vinyl acetate	+++++	4.0947	3.6725 3.8070	3.4480 3.7636		Ave		3.7906		5.0	30.0		
2-Butanone	+++++	+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	.8285		Ave	3	0.6748	-	11.0	30.0		

FORM VI AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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10/10/2019

FORM VI TO 15 LL

FORM IV AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name:	Eurofins TestAmer	ica, Knoxville	Job No.: 140-16796-1
SDG No.:			
Lab File I	D: R500BI30.D		Lab Sample ID: MB 140-33985/12
Matrix: Ai	.r	· · · · · · · · · · · · · · · · · · ·	Heated Purge:(Y/N) N
Instrument	ID: MR		Date Analyzed: 09/30/2019 17:31
GC Column:	RTX-5	ID: 0.32(mm)	

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALY	ZED
	LCS 140-33985/1009	RCCVI30C-LC S.d	09/30/2019	15:07
B31-IA-01	140-16796-1	RI30P101.D	09/30/2019	19:14
B31-IA-02	140-16796-2	RI30P102.D	09/30/2019	20:09

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1				
SDG No.:					
Client Sample ID:	Lab Sample ID: MB 140-33985/12				
Matrix: Air	Lab File ID: R500BI30.D				
Analysis Method: TO 15 LL	Date Collected:				
Sample wt/vol: 500(mL)	Date Analyzed: 09/30/2019 17:31				
Soil Aliquot Vol:	Dilution Factor: 1				
Soil Extract Vol.:	GC Column: <u>RTX-5</u> ID: 0.32(mm)				
<pre>% Moisture:</pre>	Level: (low/med) Low				
Analysis Batch No.: 33985	Units: ug/m3				

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.40	
64-17-5	Ethanol	46.07	ND		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	0.852		0.69	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35	
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	ND		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	ND		0.19	
75-69-4	Trichlorofluoromethane	137.37	ND		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM IV AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1
SDG No.:	
Lab File ID: J01L16810X.D	Lab Sample ID: MB 140-33986/6
Matrix: Air	Heated Purge:(Y/N) N
Instrument ID: MR	Date Analyzed: 10/01/2019 11:50
GC Column: RTX-5 ID: 0.32(mm)	

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

		LAB		
CLIENT SAMPLE ID	LAB SAMPLE ID	FILE ID	DATE ANALY	ZED
	LCS 140-33986/1002	RCCVJ01-LCS	10/01/2019	09:24
B35-IA-01	140-16796-3	RJ019P103.D	10/01/2019	14:51
B37-IA-01	140-16796-4	RJ019P104.D	10/01/2019	15:46
B37-IA-02	140-16796-5	RJ019P105.D	10/01/2019	16:41
B37-IA-03	140-16796-6	RJ019P106.D	10/01/2019	17:37
FD 092719	140-16796-7	RJ019P107.D	10/01/2019	18:34
P1-IA-01	140-16796-8	RJ019P108.D	10/01/2019	19:30
P1-IA-02	140-16796-9	RJ019P109.D	10/01/2019	20:27
PB-IA-03	140-16796-11	RJ019P111.D	10/01/2019	22:14
PB-IA-05	140-16796-12	RJ019P112.D	10/01/2019	23:09
OA-02	140-16796-13	RJ019P113.D	10/02/2019	00:06
PB-IA-01	140-16796-10	RJ019P110R. D	10/02/2019	08:48
	A	A		

Lab Name: Eurofins TestAmerica, Knoxville	Job No.: 140-16796-1		
SDG No.:			
Client Sample ID:	Lab Sample ID: MB 140-33986/6		
Matrix: Air	Lab File ID: J01L16810X.D		
Analysis Method: TO 15 LL	Date Collected:		
Sample wt/vol: 500(mL)	Date Analyzed: 10/01/2019 11:50		
Soil Aliquot Vol:	Dilution Factor: 1		
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32(mm)		
<pre>% Moisture:</pre>	Level: (low/med) Low		
Analysis Batch No.: 33986	Units: ug/m3		

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL ·	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.40	
64-17-5	Ethanol	46.07	ND		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	· .
75-09-2	Methylene Chloride	84.93	0.701		0.69	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35	
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND ND		0.97	
127-18-4	Tetrachloroethene	165.83	• ND		0.54	
108-88-3	Toluene	92.14	ND		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropen e	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	ND		0.19	
75-69-4	Trichlorofluoromethane	137.37	ND		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4 4-Bromofluorobenzene (Surr)		92		60-140