

SOIL VAPOR INTRUSION REMEDIAL **INVESTIGATION REPORT**

Brownfield Cleanup Program

August 2, 2021

Submitted for:

**Former El Puente Site
98, 100, and 104 South 4th Street
Brooklyn, NY**

**Block: 2443 Lot: 13
NYSDEC BCP Site Number C224260**

Prepared for:

**100 S 4th ST LLC
P.O. Box 1606
New York, NY**

Submitted to:

**New York State Department of Environmental Protection
Division of Environmental Remediation
47-40 21st Street
Long Island City, NY 11101**

Project Number:

13817



IMPACT ENVIRONMENTAL | 170 Keyland Court | Bohemia | New York | 11716 | 631.269.8800

TABLE OF CONTENTS

Section	Topic	Page
CERTIFICATION.....		vii
1 INTRODUCTION.....		1
1.1	Purpose and Scope	1
2 SITE CHARACTERISTICS.....		2
2.1	Site Description.....	2
2.1.1	Site Conditions	2
2.1.2	Description of Surrounding Properties	2
2.2	Physical Setting of the Site.....	3
2.2.1	Topography	3
2.2.2	Regional Geology and Hydrogeology	3
2.2.3	Site Specific Geology and Hydrogeology	4
3 SITE BACKGROUND		5
3.1	Historical Site Use.....	5
3.2	Proposed Site Redevelopment Plan.....	6
3.3	Previous Investigations	6
3.4	Adjacent BCP Site Investigation.....	13
3.5	Recognized Areas of Concern.....	14
4 SVI RI FIELD INVESTIGATION.....		16
4.1	Site Inspection and Chemical Inventory	17
4.2	Soil Vapor Intrusion Investigation	20
4.2.1	Installation of Permanent Soil Vapor Points.....	21
4.2.2	Soil Vapor Sampling Procedures	22
4.2.3	Indoor/Outdoor Air Sampling Procedures	23
4.2.4	Soil Vapor/Indoor/Outdoor Sample Laboratory Analysis	23
4.3	Quality Control Sampling	23
4.3.1	Duplicate Samples.....	24
4.4	Data Usability Validation.....	24
4.4.1	Data Usability Summary Report Preparation	24
4.4.2	Data Usability and Qualifiers	25

5	RI FIELD OBSERVATIONS AND ANALYTICAL RESULTS	30
5.1	Soil Vapor Investigation Analytical Results	30
5.1.1	Soil Vapor Sample Results.....	30
5.1.2	Indoor/Outdoor Air Sample Results	31
5.1.3	Decision Matrix Results	32
5.2	QA/QC Duplicate Sample Results	36
5.3	Evaluation of Results	36
5.3.1	COC Distribution	36
6	QUALITATIVE HUMAN EXPOSURE ASSESSMENT.....	38
6.1	Human Health Exposure Assessment.....	38
6.1.1	Current Site Condition	38
6.1.2	Proposed Future Use Conditions	38
6.1.3	Exposure Assessment.....	38
6.1.4	Conceptual Site Model	39
7	FINDINGS AND CONCLUSIONS	43
7.1	Project Schedule.....	44
8	REFERENCES.....	45

FIGURES

Figure 1: Site Conceptual Model

PLATES

- Plate 1:** Site Location Map
- Plate 2:** Site Area Map
- Plate 3:** Site Topographic Map
- Plate 4:** Site Plan
- Plate 5:** Soil Sample Location Plan, Collected 1997 & 1999
- Plate 6:** Groundwater Sample Plan, Collected 1997
- Plate 7:** Soil Vapor and Air Sample Location Plan, Collected 2019
- Plate 8:** Site Plan with AOCs
- Plate 9:** SVI Sample Point Locations
- Plate 10:** SVI Sample Analysis NYSDOH Exceedances
- Plate 11:** Soil Vapor Investigation Decision Matrices Results Map

TABLES

Table 1:	Quality Control Sample Summary
Table 2:	SVI Summary Table (All Results)
Table 3:	SVI Indoor Air Guidance Values Summary Table
Table 4.1:	98c South 4 th Street - NYSDOH Decision Matrices Summary Table
Table 4.2:	98b South 4 th Street - NYSDOH Decision Matrices Summary Table
Table 4.3:	98a South 4 th Street - NYSDOH Decision Matrices Summary Table
Table 4.4:	100 South 4 th Street - NYSDOH Decision Matrices Summary Table
Table 4.5:	104 South 4 th Street - NYSDOH Decision Matrices Summary Table
Table 4.6:	Outdoor Air Analysis Summary Table

APPENDICES

Appendix A:	Soil Vapor Point Construction Detail
Appendix B:	SVI RI Photo Log
Appendix C:	Data Validator Credentials
Appendix D:	Data Usability Summary Report
Appendix E:	Laboratory Analytical Report

LIST OF ACRONYMS

Acronym	Definition
AGV	Air Guidance Value
AOC	Area of Concern
ASTM	American Society for Testing and Materials
AST	Aboveground Storage Tank
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
fbg	feet below grade
CAMP	Community Air Monitoring Program
COC	Contaminant of Concern
CVOC	Chlorinated Volatile Organic Compound
DNAPL	Dense Non-Aqueous Phase Liquid
DO	Dissolved Oxygen
DUSR	Data Usability Summary Report
EDD	Electronic data deliverable
EDR	Environmental Data Resources
ELAP	Environmental Laboratory Approval Program
EM	Electromagnetic
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
ESI	Environmental Site Investigation
FINDS	Facility Index System/Facility Registry System
FWRIA	Fish and Wildlife Resources Impact Analysis
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
IDW	Investigation Derived Waste
LNAPL	Light Non-Aqueous Phase Liquid
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NYCRR	New York Codes, Rules, and Regulations
NYSDOH	New York State Department of Health
NYSDEC	New York State Department of Environmental Conservation
NYS DOT	Department of Transportation
NTU	Nephelometric Turbidity Units
ORP	Oxidation-Reduction Potential
PAH	Polycyclic Aromatic Hydrocarbon

Acronym	Definition
PBS	Petroleum Bulk Storage
PCB	Polychlorinated Biphenyls
PCE	Tetrachloroethene
PID	Photoionization Detector
PPE	Personal Protective Equipment
ppm	Parts per million
ppm _v	Parts per million by volume
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Conditions
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
RL	Reporting Limit
SCO	Soil Cleanup Objective
SSDS	Sub Slab Depressurization System
SMP	Soil Management Plan
SQG	Small Quantity Generator
SVOC	Semi Volatile Organic Compound
TAL	Target Analyte List
TCA	Trichloroethane
TCE	Trichloroethene
TCL	Target Compound List
TOGS	Technical and Operational Guidance Series
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound

CERTIFICATION

I, Kevin Kleaka, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Soil Vapor Intrusion Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.



8/2/21

Kevin Kleaka, Qualified Environmental Professional

1 INTRODUCTION

Impact Environmental Closures, Inc. (IEC) was retained by 100 S 4th St LLC (the “Volunteer”) to complete a Soil Vapor Intrusion (SVI) Remedial Investigation (RI) and prepare this SVI Remedial Investigation Report (RIR) for the property located at 98, 100, and 104 South 4th Street, Brooklyn, New York (the “Site”). A Site Location Map is provided as **Plate 1**. The Volunteer was accepted into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) under a NYSDEC Brownfield Cleanup Agreement (BCA), dated June 23, 2020, for Site No. C224260.

1.1 Purpose and Scope

This SVI RIR presents environmental data and findings from the SVI RI from March 10th through March 12th and in substantial accordance with the Remedial Investigation Work Plan (RIWP) approved by NYSDEC on January 19, 2021. Based on communications with the department, it was agreed that the Soil Vapor Intrusion (SVI) portion of the approved RIWP would be conducted initially, to conform to, and occur within the New York State Department of Health (NYSDOH) designated heating season. The objective of this SVI RI was to determine, to the extent possible, the nature and extent of contamination in soil vapor, indoor air, and ambient outdoor air. Information presented in this SVI RIR will be used, along with the remainder of the proposed RI, to evaluate appropriate remedial action alternatives.

The scope of work proposed for this SVI RI included the following: 1) installation of nine (9) permanent sub-slab soil vapor sampling points and collection of soil vapor samples; 2) collection of twelve (12) indoor air samples, and 3) the collection of one (1) ambient outdoor air sample.

The investigative protocols used for this assessment were based, in part, upon the following document: 1) the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and the subsequent updates. Presented herein are the results of the SVI RI conducted by IEC on the Site.

2 SITE CHARACTERISTICS

2.1 Site Description

The Site is situated on the south side of South 4th Street between Bedford Avenue and Berry Street in the Greenpoint neighborhood of Brooklyn, New York. The Site consists of a single parcel of land assigned New York City Tax Map Designation: Section 2, Block 2443, and Lot 13, and is in an area primarily comprised of residential and commercial properties within a historically industrial area (refer to **Plate 2**). The Site is located in a mixed-use district with an M1-2/R6 and MX-8 zoning designation. Based on review of sixty-five (65) historical New York City Zoning Maps covering the Site area from December 1961 through December 2018, the Site has had an M1-2/R6 zoning designation without residential overlays since March 2006, prior to which it was historically zoned M1-1. The NYC department of City Planning describes the M1—2/R6 designation as developed in built-up medium density areas consisting of multi-story lofts in districts that typically include light industrial uses and the MX-8 designation as one of mixed-use.

2.1.1 Site Conditions

The Site is currently developed with three (3) adjoining buildings: a multi-story structure made up of a 6-story, primarily residential structure in the center with a partial sub-grade cellar (100 South 4th Street) flanked by two (2) smaller 1-story structures (98 South 4th Street and 104 South 4th Street), with 98 South 4th Street also containing a partial sub-grade cellar. The three buildings have a combined footprint of approximately 21,500 square feet (SF). Aside from narrow concrete paved patios on the south side of 98 South 4th Street and 104 South 4th Street, and a narrow light and air easement on the south side of 100 South 4th Street, the surface area of the site is covered entirely by the footprint of the buildings.

The buildings currently receive electrical and natural gas service from Con Edison and National Grid respectively, potable water from the New York City (NYC) municipal water system, while sanitary waste is reportedly handled by the NYC municipal public sanitary sewer system. Storm water runoff for the Site is handled via the municipal storm water drainage system located along South 4th Street.

2.1.2 Description of Surrounding Properties

The surrounding land parcels have a combination of residential and commercial uses. The Site is bordered to the north by South 4th Street and several three and five story residential buildings, to the east by a four-story residential apartment building with a commercial first floor, to the south by a multi-story residential

apartment building and a multi-story office building, and to the west by a concrete paved driveway, one four-story residential apartment building and one three-story residential home.

2.2 Physical Setting of the Site

2.2.1 Topography

The Site is located within the Atlantic Coastal Plain Physiographic Province. The elevation of the Site, as presented on the United States Geologic Survey (USGS), Brooklyn Quadrangle Map, is approximately 50 feet above mean sea level (amsl). The Site Topographic Map is included as **Plate 3** and indicates the Site area has relatively flat topography. The nearest surface water body to the Site is East River (which feeds into Upper Bay), located approximately 0.28 miles (or 1,410 feet) to the west-northwest.

2.2.2 Regional Geology and Hydrogeology

Brooklyn is located in the western portion of Long Island, New York. Long Island consists of a wedge-shaped mass of un-consolidated deposits that overlie ancient basement rock. The thickness of these deposits range from approximately 100 feet on the Island's north shore to approximately 2,000 feet in some portions of the south shore. These deposits contain groundwater that is a key source of drinking water for the Island's over 3.1 million residents. The major land-forms of Long Island of importance to the hydrologic system are the moraines and outwash plains, which originated from glacial activity. The moraines represent the farthest extent of the glacial advances. The moraines consist of till, which is a poorly sorted mixture of sand, silt, clay, gravel and boulders. The till is poor to moderately permeable in most areas. Outwash plains are located to the south of the moraines. The outwash plains were formed by the action of glacial melt water streams, which eroded the headland material of the moraines and laid down deposits of well-sorted sands, silts and gravels. These outwash deposits have a moderate to high permeability.

Based upon the topographic map (USGS – Brooklyn Quadrangle) and proximity to the East River, regional groundwater flow direction is presumed to be west to southwest. It should be noted that there may be localized variations in subsurface hydrology created by sewers, wells and other anthropogenic structures. Hydrologic conditions in the vicinity of the Site may be subject to variations in seasonal precipitation and geological conditions not evident during review of publicly available records. An accurate determination of groundwater depth and flow at the Site requires a site-specific ground-water study.

The topographic map indicates the Site elevation is approximately 50 feet amsl (above mean sea level). The “USGS Groundwater Conditions on Long Island” map indicates that groundwater below the Site is

situated at less than 5 feet amsl. Thus, the estimated regional groundwater elevation at the Site is approximately 45-49 feet below grade surface (bgs).

2.2.3 Site Specific Geology and Hydrogeology

Based on NYSDEC records, obtained by IEC, soil borings conducted in 1996 at the Site identified fill materials to a depth of approximately 7 feet below grade from the first floor of 98 S. 4th St and to a depth of approximately 6 feet below the basement floor of 100 S. 4th St. Beneath the surface fill layer is sand and silt to a depth of at least 17 feet below grade. These previous borings also identified groundwater at approximately 17 feet bgs, contrary to information provided on the USGS Groundwater Conditions map.

3 SITE BACKGROUND

The Site buildings are currently occupied. The westernmost building, 98 South 4th Street is a one-story building comprised of three individual retail spaces (a, b, and c). 98a is occupied by a catering facility, 98b is occupied by a CrossFit gym, and 98c is currently vacant. 100 South 4th Street is a 7-story building currently utilized as a residential apartment building. Finally, 104 South 4th Street is a one story building currently occupied by a bar/restaurant (see **Plate 4 – Site Plan**). The following sections describe the historical Site use, the findings from previous environmental investigations completed by IEC and others for the Site, and a summary of the identified areas of concern (AOCs).

3.1 Historical Site Use

Through review of historical records, New York City records, NYC databases and environmental databases for the Site, the following is a summary of the information identified:

- The Site was originally developed with small residential structures from circa 1887 through to circa 1904, at which point a large portion of the Site was developed with a large multi-story building occupied by “Gretsch Musical Instruments”.
- Circa 1918, the large multi-story building was reportedly occupied by “Interstate Electric Novelty Co.”
- Circa 1935, the large building was reportedly occupied by “Celluloid Works”, with a smaller building on the east side of the property being occupied by “Dyeing”. At this time, the western portion of the Site was unoccupied.
- Circa 1945, the large building was reportedly occupied by “Slomowitz Upholstery Supply.”
- Circa 1947, the small building on the eastern portion of the Site was labelled as “Dyeing and Cleaning”.
- In 1949, a Certificate of Occupancy (CO) was issued for a new building on Block 2443, Lot 13, to be used as an “Adhesives Manufacturing” factory.
- Circa 1950, the three (3) onsite buildings were labelled as “Factories”.
- Circa 1976, the eastern smaller building was listed as being occupied by “Rainbow Pigment Co.”
- Between 1977 and 2007, the two western buildings were reportedly occupied by “Factories”, while the eastern building was occupied by a “warehouse”.
- In 2007, a CO was issued for the 7-story building, to be altered for use as a 74-unit residential apartment building.

3.2 Proposed Site Redevelopment Plan

100 S 4th St LLC is not proposing any alterations to the current building layout or usage. The building will remain as is.

3.3 Previous Investigations

Please refer to **Plates 5, 6, and 7** for Previous Investigation sample locations.

Ecosystems Strategies, Inc. Summary Report of Phase II Environmental Services Dated January 23, 1997

This report provides a summary of Phase II Environmental Services completed at the Site in December 1996 with some previous site investigation information.

- At least three environmental investigations were conducted at the Site since 1992 which include an Order of Compliance and a Technical Report issued by the New York City Department of Environmental Protection (NYCDEP) for the Gamin Laboratories, Inc. facility in 1991; an Environmental Site Assessment prepared on a portion of the subject property by Soil Mechanics Environmental Services in 1994; and a Phase I Environmental Audit prepared on the subject property by Ecosystems Strategies, Inc. in 1996.
- The Phase I Audit identified the one-story structure located on the western portion of the subject property (98-102 South 4th Street) as recently occupied by a glue and adhesives factory (Van-Man Adhesives) and the seven-story structure located on the central portion of the property (104-114 South 4th Street) was partially occupied by a former electroplating laboratory (Gamin Laboratories, Inc.).
- The Order of Compliance and a Technical Report issued by the NYCDEP Division of Hazardous Materials Management identified presence of "... a release or substantial threat of a release of hazardous substances (abandoned electroplating solutions) on the second floor of the seven-story structure previously occupied by Gamin Laboratories, Inc. An Order of Compliance was issued by the New York City Department of Environmental Protection (NYCDEP) in 1992 that included provisions for the clean-up, treatment and disposal of all abandoned hazardous materials present within the Gamin Laboratories, Inc. facility by February 14, 1992. Based on observations made during the November 1996 site inspection performed by Ecosystems Strategies, Inc. this work was never completed by Camin Laboratories, Inc. A preliminary survey of the abandoned Gamin facility including sampling of suspected hazardous substances was conducted by the NYCDEP as part of the 1992 Technical Re-port. This preliminary survey identified the presence of sixteen open chemical

vessels and numerous bottles and boxes of chemicals; sampling of liquids within the reaction vessels identified the liquids to be acidic. An inventory of all hazardous substances present within this facility was conducted by the NYCDEP; this inventory was not included in documents provided by the Pratt Institute. The NYCDEP concluded in 1992 that the subject property should be considered a potential environmental and human health hazard.”

- The Environmental Site Assessment prepared on a portion of the Site by Soil Mechanics Environmental Services ("Soil Mechanics") in September 1994 identified the following conditions “with respect to the interior of the on-site seven-story building: miscellaneous debris (including household trash); an abandoned automobile and automobile parts; several unlabeled, empty 55 and 30 gallon drums and one cylinder of compressed gas; numerous 55 and 30 gallon metal and plastic drums, a one-gallon drum labeled "Sulfuric Acid"; large fiberglass and metal vats containing an unidentified liquid, and oil-like staining in the laboratory area; indications of major flooding; and evidence of peeling/flaking paint. Due to identified on-site environmental conditions which have the potential to represent a potential liability, Soil Mechanics recommended that additional investigative and remedial action be conducted on the subject property including the installation of two monitoring wells. According to available information, no monitoring wells are known to have been installed on the subject property and none of the recommended investigative work is known to have been performed.”
- Ecosystems Strategies supervised “the extension of two (2) borings within the former glue factory (Building #3) to determine the presence or absence of subgrade soil and/or groundwater contamination as a result of historic on-site operations and/or current conditions.” Chlorinated solvents were identified within the 0-2-foot interval of B-1 where 170 micrograms per kilogram ($\mu\text{g}/\text{kg}$) of tetrachloroethane and 560 $\mu\text{g}/\text{kg}$ of trichloroethane were detected which were below the NYSDEC standards applicable at the time. However, compared to the current Protection of Groundwater (PGW) SCOs, PCE was below the 1,300 $\mu\text{g}/\text{kg}$ SCO, while TCE was above the 470 $\mu\text{g}/\text{kg}$ SCO. No chlorinated Volatile Organic Compounds (cVOCs) were detected in the 15-17-foot interval. Laboratory analysis of the sample collected from the 0-2-foot interval in B-2 identified the presence of elevated levels of chlorinated solvents: tetrachloroethane 5,500 $\mu\text{g}/\text{kg}$ and 3,700 $\mu\text{g}/\text{kg}$ of trichloroethane which was above the standard applicable at the time, and above the current PGW SCOs. Elevated concentrations of PAHs were also detected. Other VOCs were also detected. No detectable concentrations of trichloroethane or tetrachloroethane were identified in samples collected from 5-7 feet below grade or from 12-14 feet below grade. Available laboratory data

generated to date suggest that the vertical extent of contamination extends along the surface soils beneath the concrete floor to a depth of approximately 2 feet below grade; however, contaminated soils may extend to depths of at least 4 feet below grade.

- Observations made during the site inspection indicate the presence two (2) 10,000-gallon vaulted tanks within a vaulted area located beneath Building #3 and two (2) 275-gallon aboveground storage tanks (ASTs) located within Building #3.

Other areas were investigated which included standing water in abandoned chemical vats, standing water in the boil room, asbestos and lead in paint. Additional investigation was recommended.

Ecosystems Strategies, Inc. Summary Report of Subsurface Investigation Dated April 7, 1997

- On March 31, 1997 Ecosystems Strategies, Inc. personnel supervised the extension of three (3) borings within the former glue factory to determine the lateral and vertical extent of subgrade soil contamination. Laboratory analysis identified 1,100 parts per billion (ppb) of trichloroethene in B-4 at 6" to 2'6" below grade, above the current PGW SCOs of 470 µg/kg. Laboratory analysis of soil collected from the 4'6" to 6'6" interval and the 8'6" to 10'6" interval identified low levels of these two compounds at concentrations below NYSDEC-designated action levels. No detectable concentrations of these compounds were present in soil collected at depths greater than 12 feet below grade.
- "B-6, B-7, B-8 and B-9 were advanced in the basement of Building #2. Laboratory analysis of the samples collected from the 6" to 2'6" interval identified the presence of the low levels of tetrachloroethene in B-8 and low levels of trichloroethene in B-6 and B-8. Specifically, 3 ppb and 24 ppb of trichloroethene were detected in B-6 and B-8, respectively and 6 ppb of tetrachloroethene was detected in B-8. None of these detected levels are above NYSDEC applicable action levels." These concentrations are below the current PGW SCOs for PCE and TCE.
- "No BTEX compounds (benzene, toluene, ethylbenzene or xylene) were detected in the four (4) borings extended in the basement of Building #2. Laboratory analysis identified the presence of poly aromatic hydrocarbons (PAHs) in B-6 and B-8; however, only the levels in B-8 were present at concentrations exceeding NYSDEC-designated action levels." No polychlorinated biphenyls (PCBs) were detected.
- "The source of the identified chlorinated solvents and polycyclic aromatic hydrocarbons present in the sub-grade surface soils is unknown. Based on the generally low documented levels of PAHs and

VOCs, it is likely that the compounds present in the subgrade soils are fill related and are not due to any gross release of contaminants. Based on the non-detectable levels of PAHs documented in soils from between 15 and 17 feet below grade in B-1 (likely to be either at or below the invert of the two on-site USTs), it is unlikely that the elevated levels of PAHs identified in the soils are the result of a release of product from either of the two on-site USTs.”

- “The documented levels of VOCs and PAHs indicate that remediation or special handling of subsurface soils, other than the surface soils directly beneath the floor of the former glue factory (6" to approximately 3'6" below grade), is not warranted. No groundwater sample could be collected from beneath the building; however, the soil data support the conclusion that groundwater has not been impacted by on-site operations and/or conditions.”

Ecosystems Strategies, Inc. Final Work Plan for Site Closure Activities Date December 3, 1997

Information contained within this work plan indicated the following:

- Three groundwater monitoring wells installed on the Site were sampled in June and July 1997 to document groundwater quality on and near the Site. Samples collected in June 1997 for initial screening purposes only were not collected in accordance with NYSDEC protocol.
- Data document the presence of low levels of volatile organic compounds, including compounds previously identified in on-site soil. Levels do not indicate significant groundwater contamination and do not support the conclusion that on-site groundwater should be considered a source of off-site contamination at levels warranting remediation.
- Groundwater was determined from surveyed well elevation data and depth-to-water measurement, to be flowing in a northeasterly direction. Groundwater was present between 23 and 25 feet below surface elevation at the site, and groundwater elevations vary between 26.69 feet 27.07 feet.
- Two (2) 10,000-gallon vaulted tanks were located within a vaulted area beneath Building #3 and two (2) 275-gallon aboveground storage tanks (ASTs) are located on the main floor of Building #3. Observations indicate that the two 10,000-gallon tanks were no longer in use and may have been previously closed: the two 275-gallon ASTs are also not in use. Borings conducted on the Site do not document any evidence of petroleum re-leases from the two vaulted tanks.
- Ecosystems Strategies, Inc. Summary Report of Subsurface Investigative Services Date March 26, 1999

- This report provides documentation regarding the presence or absence of subsurface soil contamination on the subject property within the footprint of Building #2. Samples from the previous sampling round indicated no evidence of significant contamination at this Site. The data was considered insufficient by the user to fully characterize the entirety of Building #2, and additional borings and soil sampling was requested.
- Subsurface soil samples were collected from six soil borings designated as B-9 and B-11 to B-12. Trichloroethene was not detected in the shallow soil samples collected from B-11 and B-14 but was detected at low concentrations below the NYSDEC standard ranging from 3 µg/kg to 15 µg/kg (below the NYSDEC PGW SCO) in shallow soil samples collected from borings B-9, B-12, B-15 and B-16. No VOCs were detected in the deep soil samples.

Nova Consulting Phase I ESA Report, Dated February 16, 2018 with Information from the Don Carlo Phase II Subsurface Investigation and Tank Closure Report Dated April 2006

The Nova Consulting Phase I ESA revealed the following Recognized Environmental Conditions (RECs) and Historic Recognized Environmental Conditions (HRECs) relating to the Property.

- The historical use of the Property for manufacturing purposes and a cleaner / dyer, with subsurface data con-firming release impacts which have not been remediated, and its E-Designation listing were identified as RECs.
- The Property is listed as a former Voluntary Cleanup Site (El Puente at 98-116 South 4th Street) under Site ID V00094. December 2003 correspondence indicates that the NYSDEC terminated the Voluntary Cleanup Agreement W2-0840-99-011 with El Puente de Williamsburg as El Puente de Williamsburg was not successful in acquiring title to the Property. Based on the levels of contamination identified during the investigatory work completed as part of the VCP, this listing is considered a REC in connection with the Property.
- Closed Spill Numbers 8602718 and 9611887 are considered HRECs in connection with the Property. Nova submitted Freedom of Information Request to the NYSDEC for information related to the case on February 1, 2018 and February 13, 2018 and was informed that any information related to the incidents would be made available on or about March 2, 2018 and March 15, 2018, respectively.

Other pertinent information identified in this report indicate the following:

- “The Don Carlo report documented the removal of two (2) 275-gallon “aboveground USTs” and two (2) 10,000-gallon “aboveground USTs” from the western-most building. Elevated levels of SVOCs and

heavy metals were also identified by Don Carlo in on-site soils (presumably in the vicinity of the former tanks), with elevated levels of chlorinated solvents also identified in on-site groundwater.”

- The Don Carlo Report was not provided individually or attached as an appendix to the Nova Consulting Phase I Report, and as such, the exact locations of soil and groundwater sampling and levels of contamination found is not available.

Impact Environmental Closures, Inc. Phase I ESA Report, Dated May 23, 2019

A Phase I ESA Report, dated May 23, 2019, was prepared for the Site by Impact Environmental Closures, Inc. (IEC) to identify recognized environmental conditions associated with the Site. This Assessment revealed the following Recognized Environmental Conditions (RECs), Historical Recognized Environmental Conditions (HRECs), and Business Environmental Risks (BERs) relating to the Property.

- Operations at the Site dating back to circa 1997, had a variety of manufacturing uses including an adhesive factory (98 S. 4th St, formerly 98-102 S 4th St); an electroplating operation; a laboratory (Camin Industries); a Sawing, Painting and Varnishing factory (100 S. 4th St, formerly 104-114 S 4th St); and a dye factory (116 S 4th St). Previous environmental investigations in 1997 and 2019 have documented sources of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), including the chlorinated-VOCs trichloroethene (TCE) and tetrachloroethene (PCE), in soil and/or soil vapor. Previous data collected indicates VOCs have been detected in groundwater above the applicable regulatory standards. Furthermore, regional groundwater quality has been impacted with VOCs consistent with those detected on the Site. In addition, the southwestern, upgradient, adjacent Site, located at 150 South 5th Street is enrolled in the New York State Brownfields Cleanup Program (BCP site no. C224233) due to exceedances of several contaminants of concern discovered in past subsurface environmental investigations.
- According to the environmental database listing, SVOCs and mercury exceedances were detected in the on-site soils, and TCE and PCE were detected above regulatory standards in groundwater and soil vapor on-site. Volatile chemicals, primarily chlorinated VOCs (TCE and PCE), from this property have the potential to migrate into overlying buildings (and adjacent property buildings) via soil and groundwater. Estimated depth to water is 23 fbg and groundwater flow direction was calculated towards the north/northeast in prior investigations on and off-site. The confirmed soil and groundwater contamination at the Site, and confirmed soil vapor contamination at Site and/or southwest adjacent Site and associated soil vapor intrusion risks, are considered a Recognized Environmental Concern (REC).

- According to the NYSDEC Spill Incident Database, two (2) spill incidents were associated with the Site. Both incidents were mitigated to the satisfaction of the NYSDEC and closed, as discussed below:
 - Spill No. 8602718 – An unknown quantity of # 4 fuel oil was released to the Site soil on July 25, 1986. The cause of the spill is listed as “Abandoned Drums”. The spill has a closed status as of July 25, 1986.
 - Spill No. 9611887 – An unknown quantity of #2 fuel oil was released to the Site soil on January 2, 1997. The cause of the spill is listed as “Unknown”. The spill has a closed status of March 12, 2013.
- The Site is listed with an E-Designation for Hazardous Materials “E-138”, with Phase I and Phase II testing protocols required under the City Environmental Quality Review (CEQR) program. Lots with E-Designations may not be issued a building permit allowing: 1) any development; 2) an enlargement, extension or change of use in-volving residential or community facility use; or 3) any enlargement that disturbs the soil on the lot until the NYC Building Department is provided with a report from NYC Office of Environmental Remediation (OER) or NYC Department of Environmental Protection (DEP) stating that the environmental E-Designation requirements for the lot have been met. This designation is considered a REC given the likely presence of hazardous substances or petroleum products at the Site.

Excel Environmental Resources, Inc. Draft Vapor Intrusion Assessment Report Dated April 2019

The vapor intrusion scope of work performed at the Site included: 1) collection of four (4) sub-slab soil gas samples (two of which were completed in Building No. 2, and one each for Buildings No.1 and No. 3); 2) collection of twelve (12) indoor air samples with eight 24- hour indoor samples in Building No. 2, one 8- hour indoor sample in Building No.1, and three 8 -hour indoor samples in Building No. 3; and 3) collection of one (1) 24- hour ambient air sample at Building No. 2.

- The results from soil vapor/indoor air sampling were compared against the New York State Department of Health (NYSDOH) Guidance for Evaluating Vapor Intrusion in the State of New York dated October 2006, and revealed elevated levels of the following halogenated solvents: Tetrachloroethene (PCE) was detected in one sub-soil gas sample (SS1-1) at 36.8 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), and SS2-1 at 67.8 $\mu\text{g}/\text{m}^3$, which are above the NYSDOH Indoor/Outdoor Air Guidance Value of 30 $\mu\text{g}/\text{m}^3$ and Trichloroethene (TCE) was detected in soil vapor sample SS2-1 at 336 $\mu\text{g}/\text{m}^3$, SS2-2 at 45.8 $\mu\text{g}/\text{m}^3$, SS3-1 at 42.2 $\mu\text{g}/\text{m}^3$ which is above the NYSDOH In-door/Outdoor

Air Guidance Value of 2 µg/m³. Additionally, Cis-1, 2-dichloroethene was detected in sub-slab soil vapor sample SS3-1 at 3.43 µg/m³, and 1,1,1-Trichloroethane was detected in SS3-1 at 1.81 µg/m³.

- Carbon Tetrachloride (CT), Trichloroethene (TCE), and Tetrachloroethene (PCE) was detected in one indoor air sample IA1-1 at 0.51 µg/m³, 0.532 µg/m³, and 1.67 µg/m³ in Building No.1. Carbon Tetrachloride (CT) was detected in one indoor air sample IA2-1 at 0.547 µg/m³. In addition, Trichloroethene (TCE), Tetrachloroethene (PCE), and Cis-1, 2-dichloroethene (c-1,2-DCE) was detected in sample IA2-8 at 2.15 µg/m³, 2.64 µg/m³, and 0.119 µg/m³ in Building No. 2. Carbon Tetrachloride (CT), Trichloroethene (TCE), Tetrachloroethene (PCE), Cis-1, 2-dichloroethene (c-1,2-DCE) and 1,1,1 Trichloroethane (1,1,1- TCA) was detected in IA3-1 at 0.428 µg/m³, 3.98 µg/m³, 4.43 µg/m³, 0.174 µg/m³, and 0.12 µg/m³ in Building No. 3. Carbon Tetrachloride (CT) was detected on one ambient air sample AA-1 at 0.371 µg/m³ behind Building No. 3.

Review of the NYSDOH Decision Matrices, as listed in the Guidance for Evaluating Soil Vapor Intrusion in the State of New York, indicates that based on the concentration of TCE reported in the indoor air and in the sub-slab, the property owner shall perform mitigation at Buildings No. 2 and 3. Additional diagnostic testing was recommended to obtain information to design a sub-slab depressurization system (SSDS) for installation at the Site.

3.4 Adjacent BCP Site Investigation

The south adjacent property, located at 337 Berry Street and 99-105 South 5th Street, is a NYSDEC Brownfield Cleanup Program (BCP) project (No. C224233). The historical use of the subject property has been for both residential and commercial/government use. Dating back to 1887, the northern portion of the Site has been used for a wagon and auto shed, owned, or operated by the Water Purveyors Bureau and Dept. City Works, storage, and the City of N.Y. Dept. of Correction Garage, and the City of New York Landmark's Preservation Commission Salvage Warehouse. The southern portion of the Site has been used as residential, warehouse, and an auto body shop since 1887. The property is currently owned by the City of New York.

Information available for this property indicates that groundwater is located at approximately 45-feet below grade surface (bgs), and the regional groundwater flow beneath this property was to the west, towards the East River, based on the installation of four (4) monitoring wells in the area during a Remedial Investigation performed by Equity Environmental Engineering LLC in November 2016. Shallow (0-2' bgs) soil samples located along the northern portion of the property showed slightly elevated concentrations of the

Chlorinated VOCs (cVOCs) 1,1,1-trichloroethane (1,1,1-TCA) and trichloroethene (TCE) at concentrations below their respective NYCRR Part 375 Unrestricted Use SCOs. No deeper soil samples were collected for VOC analysis. Concentrations of the cVOCs tetrachloroethylene (PCE) and trichloroethylene (TCE) were detected in groundwater samples collected in the northern portion of the property (MW-1) at a maximum concentration of 71.4 µg/kg and 27.2 µg/kg, respectively. Finally, elevated concentrations of the cVOCs TCE (max of 3,510 µg/m³), PCE (max of 2,870 µg/m³), and 1,1,1-TCA (max of 278 µg/m³) were detected in soil gas samples collected in the northern portion of the property.

The BCP volunteer has completed site remediation and construction at the site. The applicant currently operates a Soil Vapor Extraction (SVE) system along the northern portion of the property, which is now an open parking lot. Moreover, the newly developed 11-story mixed-use residential and commercial building, located on the southern side of the property, was constructed with a vapor barrier engineering control, along with an active Sub-Slab Depressurization System (SSDS).

A Periodic Review Report was prepared by Advanced Cleanup Technologies, Inc (ACT) in May 2019, per the approved site Management Plan (SMP). ACT was retained to perform operation, maintenance, and monitoring of the existing engineering controls at the site. The SVE system reportedly consists of four (4) PVC extraction points that extend 15-feet bgs, with 5-feet of screen. Horizontal piping is located approximately 4-feet bgs, and the piping is connected to a package treatment plant that consists of system controls, extraction monitor, and activated carbon canisters to remove VOCs from the extracted vapor. Per the report, influent and effluent samples were collected from the SVE system on March 11, 2019, and April 30, 2019. Influent concentrations of PCE were noted as 460 µg/m³ in March and 550 µg/m³ in April, while TCE was detected at 320 and 450 µg/m³, 1,1,1-TCA at 18 and 17 µg/m³, and finally Cis-1,2-dichloroethene (cis-1,2) at 5.8 and 15 µg/m³, respectively. Based on this data, it appears that, while the SVE system is running effectively, elevated concentrations of several cVOCs are still present in the subsurface soil vapor at concentrations requiring ongoing remediation.

3.5 Recognized Areas of Concern

Based on the findings of the previous subsurface investigations completed for the Site, as detailed in the previous sections, IEC identified one (1) area of concern (AOC) in the northwest portion of the property, in which cVOCs (PCE and TCE) were detected in shallow soil samples at concentrations exceeding their respective NYCRR Part 375 Protection of Groundwater (PGW) soil cleanup objectives (SCOs). Furthermore,

cVOCs (PCE and TCE) were detected in two (2) offsite groundwater samples collected during previous investigations from the north of the property, and in one (1) onsite groundwater sample collected in from the western portion of the property, at concentrations in excess of their respective NYSDEC Groundwater Quality Standards (GQS). Finally, cVOCs (PCE and TCE) were detected in sub-slab soil vapor and indoor air samples collected during previous investigations, from across the Site, at concentrations requiring either further monitoring or mitigation in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion Decision Matrices. Due to the ability of soil vapors to migrate in any direction, following the path of least resistance, IEC cannot determine the existence or potential geographic extent of an AOC based on the soil vapor and indoor air data.

Refer to **Plate 8** for the **AOCs Site Plan**.

.

4 SVI RI FIELD INVESTIGATION

The Soil Vapor Intrusion (SVI) Remedial Investigation scope of work was completed in accordance with the approved RIWP during the period from March 10th through March 12th, 2021. The SVI remedial investigation was completed in general accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006 and the subsequent updates; and ASTM D7663-12 Standard Practice for Active Soil Gas Sampling in the Vadose Zone for Vapor Intrusion Evaluations (2018).

The following work was completed to investigate and confirm the nature and extent of the soil vapor, indoor air, and ambient outdoor air contaminants detected within the Site boundaries during previous sub-surface investigations. The SVI remedial investigation included the following activities:

- Installation of nine (9) permanent sub-slab soil vapor sampling points; two (2) in each of the four (4) commercial spaces, and one (1) in the residential building.
- Installation of two (2) temporary duplicate sub-slab soil vapor sampling points, proximal to two (2) of the primary sample points, as required by the QA/QC section of the approved RIWP.
- Collection of one soil vapor sample from each soil vapor point for a total of nine (9) soil vapor samples, and two (2) QA/QC duplicate soil vapor samples.
- Collection of 12 indoor air samples; one (1) in each of the four (4) commercial spaces, one (1) in each of the seven (7) ground floor residential apartment units, and one (1) proximal to the elevator shaft.
- Collection of two (2) duplicate indoor air samples, proximal to two (2) of the primary indoor air samples, as required by the QA/QC section of the approved RIWP.
- Collection of one (1) outside ambient air sample.
- An inspection of the interior spaces to determine the presence of any preferential pathways for soil vapor and indoor air such as cracks/holes/fissures in the concrete floor or walls, along with a chemical inventory of each indoor space.
- Submission of 26 sub-slab/indoor air/outdoor air samples for certified laboratory analysis using USEPA Test Method TO-15 for VOCs.

The field activities completed as part of this remedial investigation are described in the following sections.

4.1 Site Inspection and Chemical Inventory

Prior to the completion of the soil vapor intrusion investigation, IEC staff conducted an inspection of each interior space, to the extent practicable, in order to identify potential structural deficiencies (cracks, fissures, holes etc.), preferential pathways, or stored or utilized chemicals that may have the potential to interfere with the results of the investigation. Based on IECs inspection of the interior portions of the buildings, the following observations were noted (See **Appendix B** for a Photographic Log):

- **98c South 4th Street (vacant retail unit)**
 - The main floor of the unit is finished with a floating wooden floor, so a full inspection of the building slab was not possible.
 - The partially sub-grade basement maintained a painted concrete floor and did not exhibit any significant structural deficiencies.
 - No significant structural deficiencies were observed on the walls of the unit.
 - No floor drains or sumps were identified in this unit.
 - The HVAC for this unit was not active at the time of the inspection.
 - No chemicals were observed within this unit.
- **98b South 4th Street (Session's gym)**
 - The main floor and the partially sub-grade basement floor were painted concrete; however, a significant portion was covered with rubberized gym mats, and thus could not be fully inspected.
 - No significant structural deficiencies were observed in the visible concrete flooring and/or walls.
 - No floor drains or sumps were identified in this unit.
 - The HVAC for this unit was in operation at the time of the inspection.
 - Chemicals stored within this unit were limited to a 5-gallon container of generic hand sanitizer and 2-gallons of "Zogics" Broad Spectrum Healthcare Facility disinfectant.
 - The chemicals observed are not known to contain cVOCs or other COCs.
- **98a South 4th Street (Lemons and Olives catering)**
 - The floor in this unit was primarily unfinished concrete, with ceramic tiles located in the rear kitchen area.

- No significant structural deficiencies were observed in the concrete flooring or walls of this unit.
 - Approximately five (5) small diameter (5-6”) grated floor drains were observed throughout this unit.
 - Chemicals stored within this unit were limited to 32-ounces of isopropyl-alcohol, -quart of mineral oil, various containers of hand sanitizer, 2.5-quart container of “Liquid Plumr”, and 1-gallon of dish disinfectant.
 - The chemicals observed are not known to contain cVOCs or other COCs.
- **100 South 4th Street (residential apartment building)**
 - The ground floor lobby and ground floor residential apartment unit floors are finished with ceramic tiles. The stairwell and utility rooms maintained painted concrete flooring.
 - No significant structural deficiencies were observed in the visible concrete flooring and/or walls.
 - No floor drains or sumps were identified in the lobby or ground floor apartment units.
 - Each residential apartment unit utilizes an individual heating unit. No HVAC or central air is available in the residential apartment building.
 - Chemicals stored within the occupied residential apartment units were limited to general household cleaners.
 - A storage cage was present in the stairwell of the apartment building. The cage maintained approximately 15 5-gallon containers of paint/primer.
 - Ground floor apartment F was being utilized as a building maintenance and storage space. Chemicals observed in this unit included two (2) 5-gallon containers of Pro-Polyurethane, numerous bottles of grain alcohol, various containers of spray paint, enamel paint, and paint stripper. No odors were observed in this area.
 - The chemicals observed are not known to contain cVOCs or other COCs.
- **104 South 4th Street (Randolph Beer restaurant)**
 - The floor in this unit was primarily painted and unfinished concrete, with ceramic tiles located in the rear kitchen area and a floating wooden floor on the western side of the unit that extends into the adjoining 100 South 4th Street.

- No significant structural deficiencies were observed in the visible concrete flooring or walls of this unit.
- Approximately two (2) small diameter (5-6") grated floor drains were observed in this unit.
- Chemicals stored within this unit were limited to a container of Simple Green cleaner and a container of Zee Lerasept PAA (Peracetic Acid).
- The chemicals observed are not known to contain cVOCs or other COCs.

Based on the Site Inspection conducted by IEC, the chemicals stored within the commercial units and residential apartment building are not expected to negatively influence the results of the soil vapor intrusion investigation. No significant cracks, holes, or fissures were observed in the floors or walls of the buildings; however, several floor drains were identified.

4.2 Soil Vapor Intrusion Investigation

The NYSDEC and the NYSDOH require assessment of soil vapor at contaminated sites to collect data to evaluate health risk associated with potential exposure to VOCs through vapor intrusion into occupied spaces. The sub-slab soil vapor sampling points were installed by IEC on March 10, 2021, and the soil vapor, indoor air, and outdoor air samples were collected over a 24-hour period between March 11 and 12, 2021. The locations of the sub-slab soil vapor sampling points, indoor air and outdoor air samples, are shown on **Plate 9**. Prior to the installation of the soil vapor points, IEC conducted a preliminary walkthrough of the Site to select locations for the installation of the permanent sub-slab soil vapor points and collection of indoor air samples. The sample locations were selected to confirm the sub-slab vapor and indoor air conditions across the Site.

The permanent sub-slab soil vapor monitoring points were located at least 5 feet from exterior walls of the building to minimize the potential for infiltration of outdoor air into the vadose zone. The nine (9) permanent sub-slab soil vapor sampling points installed during the remedial investigation were designated SV-1a, SV-1b, SV-2a, SV-2b, SV-3a, SV-3b, SV-4, SV-5a, and SV-5b. The sample locations chosen were as follows:

- **SV-1a:** Located in the northern portion of the vacant retail space (98c South 4th Street).
- **SV-DUP-1:** Duplicated sample located proximal to SV-1a.
- **SV-1b:** Located in the southern portion of the vacant retail space (98c South 4th Street).
- **SV-2a:** Located in the northern portion of the retail space occupied by the gym (98b South 4th Street).
- **SV-2b:** Located in the southern portion of the retail space occupied by the gym (98b South 4th Street).
- **SV-3a:** Located in the northern portion of the retail space occupied by the catering facility (98a South 4th Street).
- **SV-3b:** Located in the southern portion of the retail space occupied by the catering facility (98a South 4th Street).
- **SV-4:** Located in the central stairwell of the residential building (100 South 4th Street).
- **SV-DUP-2:** Duplicated sample located proximal to SV-4.
- **SV-5a:** Located in the northern portion of the bar/restaurant (104 South 4th Street).
- **SV-5b:** Located in the southern portion of the bar/restaurant (104 South 4th Street).

The indoor air sampling locations were located at least 10 feet from exterior walls of the building to minimize the potential for infiltration of outdoor air into the breathing zone and were set at between 4-6-feet above

grade, to be representative of the breathing zone. The 12 indoor air samples collected during the remedial investigation were designated IA-1, IA-2, IA-3, IA-4a, IA-4b, IA-4c, IA-4d, IA-4e, IA-4g, IA-4h, and IA-5. The sample locations chosen were as follows:

- **IA-1:** Located in the central portion of the vacant retail space (98c South 4th Street).
- **IA-2:** Located in the central portion of the retail space occupied by the gym (98b South 4th Street).
- **IA-3:** Located in the central portion of the retail space occupied by the catering facility (98a South 4th Street).
- **IA-1a through IA-1g:** Located in ground floor apartments A-through-G within the residential building (100 South 4th Street)
- **IA-DUP-1:** Duplicated sample collected proximal to IA-4a.
- **IA-4h:** Located proximal to the elevator shaft within the residential building (100 South 4th Street).
- **IA-5:** Located in the central portion of the bar/restaurant (104 South 4th Street).
- **IA-DUP-2:** Duplicated sample collected proximal to IA-5.

Finally, the outdoor air sampling location was located in the building's year egress area, south of 98 South 4th Street, and was set at between 4-6-feet above grade, to be representative of the breathing zone. The outdoor air sample collected during the remedial investigation was designated OA-1.

See **Plate 9** for Soil Vapor Investigation Sample Location Map.

4.2.1 Installation of Permanent Soil Vapor Points

The permanent soil vapor implants were installed in accordance with the protocols and procedures cited in Section 2.7.2 within the New York State Department of Health (NYSDOH) October 2006, Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York document to address the identified AOCs and confirm soil vapor conditions. The soil vapor monitoring points were located at least 5 feet from exterior walls of the building to minimize the potential for infiltration of outdoor air into the vadose zone. A 1.5-inch diameter hole was drilled approximately 1.75-inches down into the slab. Then a 5/8-inch diameter hole was installed through the remainder of the slab. Once fully penetrated, the vapor pin and silicone sleeve were immediately installed using a vapor pin installation tool (impact protection) and dead-blow hammer. Once installed, the silicone sleeve created an airtight seal, and the vapor pin was fitted with a protective cap to eliminate the

potential for vapor migration into the building. Stainless-steel secure covers were then placed over the vapor pins, which thread directly onto the vapor pin for a secure and flush mounted finish. A soil vapor sample point construction detail is presented in **Appendix A**. The soil vapor points were allowed to equilibrate for a minimum of 24 hours. See **Appendix B** for a Photo Log of the Soil Vapor Intrusion Remedial Investigation.

4.2.2 Soil Vapor Sampling Procedures

Prior to sampling, a tracer helium gas test was performed to confirm the integrity of the implant seals at each soil vapor point assembly as part of a quality assurance verification. The failure of a seal allows for atmospheric air to impact the soil vapor sample. A containment shroud (i.e., 5-gallon plastic bucket) was placed on top of the soil vapor point assembly and the soil vapor point tubing was extended through the shell of the shroud using an air-tight probe hole fitting installed through the container. The bucket is then sealed around the edges with hydrated bentonite to maintain the helium within the container. The sealed shroud is then enriched with helium using a second air-tight probe hole fitting installed through shell of the container. A real-time helium detection instrument was then connected to the tubing from the soil vapor sampling point. The soil vapor sampling train is then activated by using the helium detector to draw air (at less than 0.2 liters per minute). The detection of helium would indicate that a seal was compromised and require replacement. The tracer gas helium was not detected in the eight (8) soil vapor sampling locations indicating the implant seals were considered airtight.

After confirmation of the soil vapor point seal integrity, the vapor points were each purged to evacuate potential atmospheric air prior to sample collection to ensure the sample would be representative of subsurface soil vapor conditions. The evacuation process was completed by using a PID attached to the polyethylene tubing of the sampling point. A PID has a flow rate of approximately 0.2 liters per minute. A total of three tube volumes was purged during the evacuation and during the prior helium tracer gas test. A PID reading was also recorded once the evacuation with the PID was completed.

After purging was complete, a laboratory supplied clean 2.75-liter Summa canister with a laboratory pre-calibrated flow controller with a flow rate of no more than 0.2 liters per minute, was attached to the vapor sampling point polyethylene tubing. Sampling of the sub-slab soil vapor then proceeded by fully opening the flow control valve on each sample canister. Immediately after opening the flow control valve on each canister, the initial vacuum (inches of mercury) was recorded in the field log and on the sample tag. The

Summa canisters supplied by the analytical laboratory arrived with approximately 29.09 to 31.90 inches of mercury vacuum.

The samples were collected over a period of approximately 24-hours, with an estimated flow rate of 0.0020 liters per minute. When approximately 2.75 liters of sample had been collected or the canister pressure dropped to approximately 4 inches of mercury (approx. 24 hours), the samples were stopped by closing the flow controller valves. The final vacuum recorded in the field notebook and on the sample tag.

4.2.3 Indoor/Outdoor Air Sampling Procedures

The indoor and outdoor air samples were collected using laboratory supplied clean 2.75-litre Summa canisters with laboratory pre-calibrated flow controllers. The summa canisters were placed approximately 4-6-feet above grade, in the approximate breathing zone. Samples were collected over a period of approximately 24-hours, with an estimated flow rate of 0.0020 liters per minute. When approximately 2.75 liters of sample had been collected or the canister pressure dropped to approximately 4 inches of mercury (approx. 24 hours), the samples were stopped by closing the flow controller valves. The final vacuum recorded in the field notebook and on the sample tag.

4.2.4 Soil Vapor/Indoor/Outdoor Sample Laboratory Analysis

The soil vapor, indoor air, and outdoor air sample identification, date, start time, start vacuum, end time, and end vacuum for each Summa canister sample were recorded on a sample log sheet and the laboratory chain of custody. Nine (9) soil vapor samples, two (2) duplicate soil vapor samples, 12 indoor air samples, two (2) duplicated indoor air samples, and one (1) outdoor air sample were submitted to Analytical Laboratories of Mansfield, MA (Alpha) on March 12, 2021 via laboratory courier to Alpha Analytical of Westboro, MA, for laboratory analysis of VOCs via EPA Method TO-15.

4.3 Quality Control Sampling

During the SVI RI, duplicate samples were collected for QA/QC purposes in accordance with the QAPP. A summary of the QA/QC samples collected/analyzed during the RI is provided in **Table 1**.

4.3.1 Duplicate Samples

Duplicate sample collection will apply to soil vapor and indoor air samples collected at this Site. A duplicate (replicate) sample is collected to control the general sampling methodology that is being employed. This sample ensures that a representative sample is being collected. Duplicate samples may also be submitted to verify the precision of the analytical methods.

The duplicate samples were collected from the same material as the primary sample by splitting the volume of sample collected in the field into two sample containers. The duplicate samples are labelled in such a manner that the laboratory would not be able to determine that they are duplicate samples. This serves to minimize possible bias that could arise during analysis.

4.4 Data Usability Validation

The analytical data packages from the SVI RI were validated by Christina Rink with Laboratory Data Consultants, Inc., of Carlsbad, CA (LDC), an independent third-party data validator subcontractor in accordance with USEPA and NYSDEC validation protocols. The data validator's credentials are provided in **Appendix C**.

4.4.1 Data Usability Summary Report Preparation

A DUSR was prepared for each sampling matrix and analytes. The DUSR presents the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method. The independent data validator reviews and considers the following as part of their evaluation for the of the soil vapor samples:

- Holding times
- Canister certification
- Laboratory blanks
- Laboratory control samples
- System monitoring compounds
- Target compound identification and qualification
- Field duplicate sample results

4.4.2 Data Usability and Qualifiers

The Category B analytical laboratory reports for the soil vapor samples, indoor air, and outdoor air samples collected during the SVI RI were provided by Alpha Analytical Laboratory and were forwarded to LDC for evaluation and preparation of DUSRs. The analytical results were reviewed by LDC for overall usability issues.

Based on the results of the data validation, the following qualifiers may be assigned to the data in accordance with USEPA's guidelines and best professional judgment:

- U Data qualified with this qualifier are usable at the reporting limit (RL).
- UJ Data qualified with this qualifier are to be used cautiously as they are estimated data with some quality control issues.
- J Data qualified with this qualifier are to be used cautiously as they are estimated data with some quality control issues.
- R Data qualified with this data qualifier are not usable due to server quality control issues.

A summary of the findings of the DUSR is as follows:

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers with the exception listed below.

Samples IA-4C and IA-4G were diluted for ethanol due to original analyses exceeding the calibration range. For ethanol results in samples IA-4C and IA-4G, the diluted results should be considered the most usable. The IA-4C and IA-4G results should not be considered usable for ethanol.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Gas Chromatography/Mass Spectrometry (GC/MS) Tunes

All criteria were met.

Initial and Continuing Calibration

Initial Calibration: All criteria were met.

Compounds that did not meet criteria are summarized in the following table:

Date	Instrument ID	Compound	ICV %D	Associated Samples		Validation Action
12/21/20	ICV-AIRLAB17	1,2,4-Trichlorobenzene Hexachlorobutadiene	34.1	IA-4C	SS	UJ nondetects
			35.4	IA-4D	SS	UJ nondetects
				IA-4E		
				IA-4F		
				IA-4G		
				IA-4H		
				IA-5		
				IA-DUP-1		
				IA-DUP-2		
				OA-1		

- X = Initial calibration (IC) relative standard deviation (%RSD) > 30; estimate (J/UJ) positive and nondetect results.
 XX = Continuing calibration (CC) percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
 SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
 + = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,2,4-trichlorobenzene and hexachlorobutadiene results were estimated due to second source verification exceedances. The bias cannot be determined. The results can be used for project objectives as non-detects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration: All criteria were met.

Blanks

Contamination was not detected in the method blanks.

A field blank was not associated with this sample set. Validation action was not required on this basis.

Laboratory Duplicate Results

Laboratory duplicates were performed on samples IA-2 and IA-4D for VOC analyses. All criteria were met.

Laboratory Control Sample (LCS) Results

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples SV -1A and SV -DUP-1, samples SV -4 and SV -DUP-2, samples IA-4A and IA-DUP-1, and samples IA-5 and IA-DUP-2 were submitted as the field duplicate pairs with this sample group. The following tables summarize the concentrations and validation actions taken (RPD = Relative Percentage Difference).

Compound	Concentration (ppbv)		RPD
	SV-1A	SV-DUP-1	
Dichlorodifluoromethane	0.409	0.403	1
Ethanol	81.2	68.2	17
Acetone	193	120	47
Isopropanol	6.29	6.29	0
tert-Butyl alcohol	1.72	0.508	109
Carbon disulfide	0.200U	0.403	Not comparable
1,1-Dichloroethane	0.809	0.353	78
2-Butanone	2.79	1.39	67
cis-1,2-Dichloroethene	1.93	0.645	100
Chloroform	0.390	0.408	5
n-Hexane	0.222	0.200U	Not comparable
1,1,1-Trichloroethane	1.30	0.857	41
Benzene	0.262	0.212	21
Trichloroethene	22.4	16.9	28
Toluene	0.552	0.527	5
2-Hexanone	0.319	0.200U	Not comparable
Tetrachloroethene	6.78	5.60	19

Compound	Concentration (ppbv)		RPD
	SV-4	SV-DUP-2	
Dichlorodifluoromethane	0.582	0.503	15
Chloromethane	0.200U	0.373	Not comparable
Ethanol	24.4	42.0	53
Acetone	3.86	5.98	43
Isopropanol	4.20	9.86	81
tert-Butyl alcohol	0.782	1.78	78
2-Butanone	1.24	1.74	34
Chloroform	2.18	0.643	109
Trichloroethene	3.90	3.03	25
Toluene	0.589	1.02	54
2-Hexanone	0.216	0.371	53
Tetrachloroethene	0.687	0.835	19
Ethylbenzene	0.459	0.790	53
m,p-Xylene	0.812	1.43	55
o-Xylene	0.430	0.670	44
1,3,5-Trimethylbenzene	0.200U	0.347	Not comparable
1,2,4-Trimethylbenzene	0.200U	0.341	Not comparable

Compound	Concentration (ppbv)		RPD
	IA-4A	IA-DUP-1	
Dichlorodifluoromethane	0.408	0.497	20
Chloromethane	0.532	0.524	2
Ethanol	472	438	7
Acetone	15.3	16.4	7
Trichlorofluoromethane	0.226	0.336	39
Isopropanol	93.4	104	11
2-Butanone	0.521	0.519	0
Ethyl acetate	0.733	0.955	26
n-Hexane	0.247	0.242	2
Benzene	0.341	0.336	1
Cyclohexane	0.565	0.533	6
n-Heptane	8.56	8.44	1
Toluene	1.41	1.37	3
m,p-Xylene	0.442	0.481	8
Carbon tetrachloride	0.062	0.082	28
Trichloroethene	0.064	0.069	8
Tetrachloroethene	0.153	0.153	0

Compound	Concentration (ppbv)		RPD
	IA-5	IA-DUP-2	
Dichlorodifluoromethane	0.492	0.491	0
Chloromethane	0.476	0.473	1
Ethanol	479	467	3
Acetone	10.2	10.1	1
Trichlorofluoromethane	1.11	1.06	5
Isopropanol	47.4	46.4	2
2-Butanone	0.797	0.838	5
Ethyl acetate	2.47	2.37	4
Chloroform	0.271	0.257	5
n-Hexane	0.200U	0.212	Not comparable
Benzene	0.329	0.331	1
n-Heptane	0.202	0.204	1
Toluene	0.742	0.739	0
m,p-Xylene	0.456	0.431	6
1,2,4-Trimethylbenzene	0.283	0.246	14
Carbon tetrachloride	0.093	0.083	11
Trichloroethene	0.055	0.054	2
Tetrachloroethene	0.078	0.077	1

Quantitation Limits and Data Assessment

No results were reported below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analyses.

Due to high target compound levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed, and the results reported. RLs were elevated accordingly.

Sample	VOC Analyses Reported
SV-1B	3.125-fold dilution due to nature of sample matrix
SV-2B	10-fold dilution due to nature of sample matrix
SV-3A	2.941-fold dilution due to nature of sample matrix
IA-4CDL	5-fold dilution due to high compound level for ethanol
IA-4GDL	2.5-fold dilution due to high compound level for ethanol

Sample Quantitation and Compound Identification

Calculations were spot checked; no discrepancies were noted.

Overall, the data reviewed by LDC is acceptable for the intended purpose of this SVI RI. The DUSR for the soil vapor, indoor, and outdoor air samples is provided in **Appendix D**.

5 RI FIELD OBSERVATIONS AND ANALYTICAL RESULTS

The following sections provide information regarding the field observations and a summary of the laboratory analytical results for the soil vapor, indoor air, and outdoor air samples collected during the SVI RI. Sub-slab soil vapor samples were collected from a total of nine (9) locations during the SVI RI. The SVI sample locations are shown on **Plate 9**. A summary of the sub-slab soil vapor, indoor air, and outdoor air samples with associated QA/QC samples collected and analysis performed is provided in **Table 1**. The laboratory analytical data reports for data generated during the SVI RI are provided in **Appendix E**.

5.1 Soil Vapor Investigation Analytical Results

5.1.1 Soil Vapor Sample Results

The soil vapor samples were collected from within the three (3) onsite buildings (98 South 4th Street, 100 South 4th Street, and 104 South 4th Street), and comprised of nine (9) soil vapor sampling points. The results of the sub-slab soil vapor analysis indicated that several VOCs were detected at elevated concentrations (See **Plate 10**). Of note, the chlorinated VOC (cVOC) tetrachloroethene (PCE) was detected at elevated concentrations in the nine (9) soil vapor samples collected, and the cVOC trichloroethene (TCE) was also detected at elevated concentrations in the nine (9) soil vapor samples. PCE and TCE are commonly identified as degreasing solvents. In addition, elevated concentrations of the following VOCs were detected: 1,1,1-trichloroethane was detected in three (3) of the nine (9) sub-slab samples, cis-1,2-dichloroethene was detected in six (6) of the nine (9) samples, and vinyl chloride was detected in one (1) of the nine (9) samples. The NYSDEC does not currently have standards, criteria or guidance values for concentrations of volatile chemicals in subsurface soil vapors.

The PCE and TCE were detected in soil vapor at elevated concentrations above the NYSDOH Air Guidance Values (AGV) of 30 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and $2.0 \mu\text{g}/\text{m}^3$, respectively. The concentrations of PCE ranged from $4.6 \mu\text{g}/\text{m}^3$ at SV-4 up to $2,710 \mu\text{g}/\text{m}^3$ at SV-2b. The TCE concentrations ranged from $5.7 \mu\text{g}/\text{m}^3$ at SV-5b up to $3,260 \mu\text{g}/\text{m}^3$ at SV-2b. The concentrations of PCE and TCE are lower beneath the east side portion of the property (samples collected from beneath 100 and 104 South 4th Street) with the highest concentrations located in the west and southwestern portion of the property (primarily beneath 98 South 4th Street). While the PCE and TCE concentrations are elevated in the northwest portion of the property, the AOC where cVOCs were detected in shallow soils during previous investigations, the highest concentrations were detected in the southwest corner of the property. A summary of the soil vapor, indoor air, and outdoor

air laboratory analytical results are provided in **Table 2**. The Category B laboratory report for the soil vapor analysis is included in **Appendix E**.

The elevated sub-slab soil vapor concentrations on the Site area likely the result of volatilized contamination from soil and groundwater. Migration of soil gas contaminated with VOCs is less predictable than groundwater migration due to subsurface heterogeneities. Soil and groundwater samples will be collected during the second Phase of the Remedial Investigation and will further determine the presence of and potential origins of the PCE and TCE contamination detected in the soil vapor samples. It is unknown whether the contamination is from an on-site or off-site source.

5.1.2 Indoor/Outdoor Air Sample Results

The indoor air samples were collected from within the three (3) onsite buildings (98 South 4th Street, 100 South 4th Street, and 104 South 4th Street), and comprised of 12 indoor air sample locations, while one (1) outdoor ambient air sample was collected from the yard behind 98 South 4th Street. The results of the indoor air sample analysis indicated that several VOCs were detected at elevated concentrations. Of note, the cVOC TCE was detected at elevated concentrations in 10 of the 12 indoor air samples collected from non-detect in IA-4D and IA-4E, with a minimum concentration of 0.253 $\mu\text{g}/\text{m}^3$ in IA-4H and a maximum concentration of 2.14 $\mu\text{g}/\text{m}^3$ in IA-3. In addition, the cVOC PCE was detected at elevated concentrations in the 12 indoor air samples with a minimum concentration of 0.292 $\mu\text{g}/\text{m}^3$ in IA-4E and a maximum concentration of 2.55 $\mu\text{g}/\text{m}^3$ in IA-4C. PCE and TCE are commonly identified as degreasing solvents. In addition, elevated concentrations of the cVOC carbon tetrachloride were detected in the 12 indoor air samples with a minimum concentration of 0.39 $\mu\text{g}/\text{m}^3$ in IA-4A and a maximum concentration of 0.591 $\mu\text{g}/\text{m}^3$ in IA-4C and IA-4G. Finally, elevated concentrations of the cVOCs TCE (0.325 $\mu\text{g}/\text{m}^3$) and carbon tetrachloride (0.491 $\mu\text{g}/\text{m}^3$) were detected in the outside ambient air sample OA-1. Concentrations of carbon tetrachloride were similar in indoor samples to the results of the outdoor ambient sample, and thus these detections are considered reflective of ambient conditions.

TCE was detected in one (1) indoor air sample, IA-3, located within 98a South 4th Street (occupied by the catering facility) at a concentration (2.14 $\mu\text{g}/\text{m}^3$) marginally above the NYSDOH Air Guidance Value (AGV) of 2 $\mu\text{g}/\text{m}^3$. PCE and TCE were not detected in the other 11 samples at levels in excess of the NYSDOH AGV. A summary of indoor air laboratory analytical results is provided in **Table 3**.

5.1.3 Decision Matrix Results

Per the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, the soil vapor sample results were compared to those indoor air samples collected from the same space using three Decision Matrices, A, B, and C. The following compounds are evaluated using Soil Vapor/Indoor Air Matrix A: TCE, cis-1,2-dichloroethene, 1,1-dichloroethene, and carbon tetrachloride. The following compounds are evaluated using Soil Vapor/Indoor Air Matrix B: PCE, 1,1,1-trichloroethane, and methylene chloride. Finally, the compound vinyl chloride is evaluated using Soil Vapor/Indoor Air Matrix C.

Each space within the property was assessed using a combination of soil vapor and indoor air samples.

- 98c South 4th Street was evaluated using two (2) soil vapor samples (SV-1a and SV-1b), and one (1) indoor air sample (IA-1).
- 98b South 4th Street was evaluated using two (2) soil vapor samples (SV-2a and SV-2b), and one (1) indoor air sample (IA-2).
- 98a South 4th Street was evaluated using two (2) soil vapor samples (SV-3a and SV-3b), and one (1) indoor air sample (IA-3).
- 100 South 4th Street was evaluated using one (1) soil vapor sample (SV-4), and eight (8) indoor air samples (IA-4a through IA-4h).
- 104 South 4th Street was evaluated using two (2) soil vapor samples (SV-5a and SV-5b), and one (1) indoor air sample (IA-5).

See **Plate 9** for Sample Locations. The following tables (also provided in **Tables 4.1 through 4.6** at the end of this report) provide the matrices decisions for each space sampled.

98c South 4th Street:

Sample ID	SV-1A	SV-1B	IA-1	NYSDOH Matrices Decision
Date	3/12/2021			
Sample Type	Sub Slab	Sub Slab	Indoor Air	
Unit	$\mu\text{g}/\text{m}^3$			
Volatile Organics in Air				
1,1,1-Trichloroethane	7.09	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	ND	0.396	NFA
cis-1,2-Dichloroethene	7.65	88	ND	NFA/MITIGATE
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	46	1,240	1.11	NFA/MITIGATE
Trichloroethene	120	1000	0.435	MITIGATE/MITIGATE
Vinyl chloride	ND	ND	ND	NFA

Based on the results of the decision matrices, the concentrations of TCE in SV-1a require mitigation, while concentrations of cis-1,2-dichloroethene, PCE, and TCE in SV-1b require mitigation.

98b South 4th Street:

Sample ID	SV-2A	SV-2B	IA-2	NYSDOH Matrices
Date	3/12/2021			
Sample Type	Sub Slab	Sub Slab	Indoor Air	
Unit	$\mu\text{g}/\text{m}^3$			
Volatile Organics in Air				
1,1,1-Trichloroethane	ND	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	ND	0.421	NFA
cis-1,2-Dichloroethene	5.35	379	ND	NFA/MITIGATE
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	5.2	2710	0.787	NFA/MITIGATE
Trichloroethene	16.5	3260	0.408	MONITOR/MITIGATE
Vinyl chloride	0.537	ND	ND	NFA

Based on the results of the decision matrices, the concentrations of TCE in SV-2a require monitoring, while concentrations of cis-1,2-dichloroethene, PCE and TCE in SV-2b require mitigation.

98a South 4th Street

Sample ID	SV-3A	SV-3B	IA-3	NYSDOH Matrices
Date	3/12/2021			
Sample Type	Sub Slab	Sub Slab	Indoor Air	
Unit	µg/m ³			
Volatiles in Air				
1,1,1-Trichloroethane	3.79	1.58	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	ND	0.403	NFA
cis-1,2-Dichloroethene	20	24.1	ND	NFA
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	460	138	2.09	NFA
Trichloroethene	967	321	2.14	MITIGATE/MITIGATE
Vinyl chloride	ND	ND	ND	NFA

Based on the results of the decision matrices, the concentrations of TCE in SV-3a and SV-3b require mitigation.

100 South 4th Street

Sample ID	SV-4	IA-4A	IA-4B	IA-4C	IA-4D	IA-4E	IA-4F	IA-4G	IA-4H	NYSDOH Matrices
Date	3/12/2021									
Sample Type	Sub Slab	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	
Unit	μg/m ³									
Volatile Organics in Air										
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
Carbon tetrachloride	ND	0.39	0.421	0.591	0.459	0.478	0.547	0.591	0.535	NFA
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
Tetrachloroethene	4.66	1.04	1.02	2.55	0.387	0.292	0.448	0.57	0.502	NFA
Trichloroethene	21	0.344	0.908	1.23	ND	ND	0.516	0.333	0.253	NFA/MONITOR/MITIGATE
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA

Based on the results of the decision matrices, the concentrations of TCE in IA-4a, IA-4b, IA-4f, IA-4g, and IA-4h require further monitoring, while TCE concentrations in IA-4c require mitigation.

104 South 4th Street

Sample ID	SV-5A	SV-5B	IA-5	NYSDOH Matrices
Date	3/12/2021			
Sample Type	Sub Slab	Sub Slab	Indoor Air	
Unit	μg/m ³			
Volatile Organics in Air				
1,1,1-Trichloroethane	ND	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	2.68	0.585	NFA/IDENTIFY SOURCES and RESAMPLE or MITIGATE
cis-1,2-Dichloroethene	ND	ND	ND	NFA
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	9.56	59.8	1.04	NFA
Trichloroethene	7.9	5.7	0.296	NFA/MONITOR
Vinyl chloride	ND	ND	ND	NFA

Based on the results of the decision matrices, the concentrations of carbon tetrachloride in SV-5b require identification of potential sources, resampling and potential mitigation, while concentrations of TCE in SV-5a require monitoring.

See **Plate 11 - Soil Vapor Investigation Decision Matrices Results Map** for a map of sample locations, and required remedial measures, per the NYSDOH Decision Matrices.

5.2 QA/QC Duplicate Sample Results

During the RI, two (2) duplicated soil vapor samples (SV-DUP-1 and SV-DUP-2) and two (2) indoor air duplicated samples (IA-DUP-1 and IA-DUP-2) were collected. A summary of the results for these QA/QC samples is provided in **Table 1**. Samples were collected from in direct proximity to the primary sample location and were submitted to the laboratory for analysis of VOCs using USEPA Method TO-15.

5.3 Evaluation of Results

The nature and extent of contamination at the Site, based on field observation and the analytical results of the soil vapor, indoor air, and outdoor air samples collected as part of this SVI RI, are discussed in the following sections. The main contaminants of concern (COCs) identified at the Site requiring either monitoring or mitigation based on the NYSDOH Decision Matrices are TCE, PCE, and cis-1,2-dichloroethene.

5.3.1 COC Distribution

An accurate determination of COC distribution will be further defined once the soil and groundwater phase of the Remedial Investigation has been completed. However, below is a discussion of the COC distribution within soil vapor and indoor air samples alone.

The highest soil vapor TCE concentrations were 1,000 $\mu\text{g}/\text{m}^3$ at SV-1b and 3,260 $\mu\text{g}/\text{m}^3$ at SV-2b, both of which are located on the south west portion of the Site. The highest concentrations of PCE in soil vapor were 1,240 $\mu\text{g}/\text{m}^3$ in SV-1b, and 2,710 $\mu\text{g}/\text{m}^3$ in SV-2b, both of which are located on the south west portion of the Site. Finally, the highest concentrations of cis-1,2-dichloroethene were 88 $\mu\text{g}/\text{m}^3$ at SV-1b, and 379 $\mu\text{g}/\text{m}^3$ at SV-2b, also located on the south west portion of the Site. It should be noted that during previous subsurface investigations, the primary AOC was located in the north west portion of the site, in which slightly elevated concentrations of TCE and PCE were detected in shallow soil samples. Of note, soil vapor concentrations of TCE and PCE in the north west portion of the Site were significantly lower than those collected from the south west portion of the Site.

In summary, the distribution of the cVOCs in soil vapor indicate the source area for the TCE/PCE/cis-1,2-dichloroethene at the Site is potentially in the southwest portion of the Site, contrary to the results of previous investigations. The second Phase of the RI will include soil samples that will be collected at several sample intervals, both shallow, intermediate, and deep, across the Site, including the south west portion of

the Site. These samples will further define and confirm the presence of an AOC in the south west portion of the Site.

The sampling locations associated with the SVI RI is shown on **Plate 9**.

6 QUALITATIVE HUMAN EXPOSURE ASSESSMENT

A qualitative exposure assessment for both human health and fish and wildlife resources has been prepared to evaluate exposure to the identified contaminants of concern in accordance with the May 2010 NYSDEC Final DER-10 Technical Guidance for Site Investigation and Remediation. The following sections provide the details for both assessments.

6.1 Human Health Exposure Assessment

Human health exposure risk was evaluated for both the current and the proposed future use conditions associated with the Site. The assessment includes an evaluation of potential sources and migration pathways of site contamination, potential receptors, exposure media, and receptor intake routes and exposure pathways.

6.1.1 Current Site Condition

The Site is currently developed with three (3) adjoining buildings: a multi-story structure made up of a 6-story, primarily residential structure in the center with a partial sub-grade cellar (100 South 4th Street) flanked by two (2) smaller 1-story structures (98 South 4th Street and 104 South 4th Street), with 98 South 4th Street also containing a partial sub-grade cellar. The three buildings have a combined footprint of approximately 21,500 square feet (SF). Aside from narrow concrete paved patios on the south side of 98 South 4th Street and 104 South 4th Street, and a narrow light and air easement on the south side of 100 South 4th Street, the surface area of the site is covered entirely by the footprint of the buildings.

6.1.2 Proposed Future Use Conditions

The Site is planned to remain as is, with no renovations or redevelopments proposed.

6.1.3 Exposure Assessment

This exposure assessment discusses potential migration routes by which chemicals in the environment may be able to reach human receptors. This discussion is based on current and hypothetical future conditions at the Site and investigation area. A complete exposure pathway for the COCs identified for the Site includes an evaluation of the following:

- The contaminant source(s) and location of the release(s) to the environment, and the contaminated medium at the potential points of exposure;
- Description of the contaminant release and transport mechanisms to the exposed population;

- Identification of all points of potential human contact with the contaminated medium;
- Possible exposure route (i.e., ingestion, inhalation, dermal absorption); and
- Description of the receptor populations the who may be exposed to contaminants.

An exposure pathway is considered complete when these five elements are documented. A potential exposure pathway exists if one or more of the five elements is unknown. An exposure pathway can be eliminated from further evaluation when one of the five elements has not existed in the past, does not exist in the present and can reasonably be expected to never exist in the future. The following section identifies potential points of human contact with contaminated media and exposure pathways identified for the Site. A summary of exposure pathways relating to surface soil, sub-surface soil, and groundwater, will be discussed in the Soil and Groundwater Remedial Investigation Report that will be prepared following the second phase of the RI.

6.1.3.1 Inhalation of Air (e.g., soil vapor intrusion)

- Since the building is occupied by a mixture of commercial and residential tenants, and will remain as such for the foreseeable future, there exists the potential for human exposure to soil vapor intrusion on the Site.
- Inhalation of vapors from contaminated soil and contaminated groundwater beneath the Site creates a potential for exposure to building occupants when vapors accumulate beneath structures and possibly have impacted indoor air quality within a structure.

6.1.4 Conceptual Site Model

The Conceptual Site Model (CSM) is developed to provide an understanding of the fate and transport of COCs based on the physical and chemical characteristics of the Site and the interaction of the COCs with the Site environment (e.g. solubility, adsorption, persistence, volatilization and biological processes) which is necessary to understand the movement of the COCs in the various media and the risk posed to potential receptors. The CSM is a method to develop and compile information as obtained for the Site such as site history, site investigation findings and remedial actions. The conceptual site model presented in the RIWP has been updated for the Site to include the data generated from the SVI RI and to provide a succinct

description of the distribution of COCs in Site soil vapor, potential migration pathways, and potentially complete exposure pathways.

Depth to bedrock has not yet been identified during previous environmental investigations, and the unconsolidated overburden soil consist of granular soils (silty to medium poorly graded sand). The depth to groundwater beneath the Site has been encountered at between approximately 17 and 26 feet below grade (fbg) and is anticipated to flow in a north-northeasterly direction. The Site area has a relatively flat topography and the nearest surface water body to the Site is East River, located approximately 1,410 feet to the west. The potable water supply for the area of the Site is provided by the New York City Department of Environmental Protection (NYCDEP) Bureau of Water and Sewer Operations where the potable water supply is obtained from upstate within the Catskill/Delaware watersheds. The Catskill/Delaware watersheds consist of nineteen (19) reservoirs which use a series of tunnels and aqueducts to transfer water to municipalities. Groundwater in Kings County is not used for potable purposes in the area of the Site.

The Site is in an area which is residential mixed with commercial and office usage. The Sites two single story commercial and one 6-story residential apartment buildings are currently occupied .. The Site is bordered to the north by South 4th Street and several three and five story residential buildings, to the east by a four-story residential apartment building with a commercial first floor, to the south by a multi-story residential apartment building and a multi-story office building, and to the west by a concrete paved driveway, one four-story residential apartment building and one three-story residential home. The use of the Site is not planned to change in the future.

CVOCs are the predominant COC present at the Site, as confirmed by the soil vapor intrusion investigation performed. There have been some incidental detections of SVOCs above Unrestricted Use SCOs in shallow and intermediate soil. However, no distinctive historic fill layer has yet been identified at the Site.

The soil vapor analytical data shows the cVOCs PCE, TCE, and cis-1,2 were detected at elevated concentrations requiring mitigation, in accordance with the NYSDOH final Guidance for Evaluating Soil Vapor Intrusion Decision Matrices, primarily in the southwest corner of the property (samples SV-1b and SV-2b). The SVI RI soil vapor analytical data from SV-3b, SV-1a, and SV-3a indicate that cVOCs have potentially migrated in soil vapors to the northwestern portion of the Site. Due to the high TCE/PCE concentration detected in SV-1b and SV-2b, the source area is potentially the southwest portion of the Site. Due to the lack

of comprehensive soil and groundwater data at this time, it cannot be determined whether the source is onsite, or from an off-site source to the south.

The source area and distribution of contamination at the Site has been identified and discussed in greater detail in Sections 5.3 of the SVI RIR. The contaminated media includes soil vapor, soil and groundwater, indicating the Site may have been impacted by past Site operations as adhesives manufacturing (98 S. 4th St, formerly 98-102 S 4th St); an electroplating operation; a laboratory (Camin Industries); a Sawing, Painting and Varnishing factory (100 S. 4th St, formerly 104-114 S 4th St); and a dye factory (116 S 4th St).

The south adjoining property, located at 95-105 South 5th Street, is a NYSDEC Brownfield Cleanup Program (BCP) project (No. C224233). Developments at this site have included two-story residential units (on Lots 37 and 41) circa 1868 and an auto body shop (on Lot 41). Due to the auto body shop, both Lots have an E-Designation assigned in the Greenpoint-Williamsburg Rezoning Environmental Impact Statement (EIS). The site has been redeveloped into a 12-story apartment building with a commercial business located at the first floor. The nature and extent of contamination is as follows: The primary contaminants of concern were SVOCs and mercury in soil, and tetrachloroethene and trichloroethene in groundwater. Groundwater is noted to flow north towards the East River. Remedial actions have successfully achieved soil cleanup objectives for restricted residential use. However, it should be noted that the property is operating a continuous soil vapor extraction (SVE) system, located in the parking lot, directly adjoining 98 South 4th Street (the Site) to the south, and for which recent data from the Operations, Maintenance and Monitoring of said system seemed to report that cVOCs are still present in soil vapor in this area of the site.

This SVI RIR has included updating of the initial CSM to consider the relationship between contaminant sources and contaminants of concern, environmental media and receptors through consideration of migration and exposure pathways. This conceptual model is based on current Site conditions and surrounding land use as well as the planned future Site and the surrounding land uses. The remedy selected for the Site will address the complete exposure pathways in a Remedial Action Work Plan (RAWP).

An illustrative CSM, **Figure 1**, is a pictorial depiction of environmental hazards associated with contaminated soil vapor. Exposure pathways to human (e.g., incidental ingestion, dermal absorption, and inhalation) are also indicated based on the current information available for the Site. This CSM presents an understanding of the known Site conditions based on the SVI RI. The CSM will be maintained and updated as new

information is collected throughout the life cycle of the project, including the upcoming second phase of the RI, including extensive soil and groundwater sampling and analysis.

7 FINDINGS AND CONCLUSIONS

IEC has prepared this SVI RI for the Site and in substantial accordance with the Remedial Investigation Work Plan (RIWP) approved by NYSDEC on January 19, 2021. This SVI RI is intended to determine, to the extent possible, the nature and extent of contamination in soil vapor and will be used to evaluate appropriate remedial action alternatives for the Site.

The findings of the SVI RI are summarized as follows:

- A total of nine (9) sub-slab soil vapor points were sampled, along with 12 indoor air samples and one (1) outdoor ambient air sample.
- The concentrations of PCE in soil vapor ranged from 4.66 $\mu\text{g}/\text{m}^3$ at SV-4 (located in the stairwell, centrally located within 100 South 4th Street) up to 2,710 $\mu\text{g}/\text{m}^3$ at SV-2b (located in the south portion of 98b South 4th Street). The TCE concentrations in soil vapor ranged from 5.7 $\mu\text{g}/\text{m}^3$ at SV-5b (located on the south portion of 104 South 4th Street) up to 3,260 $\mu\text{g}/\text{m}^3$ at SV-2b (located in the south portion of 98b South 4th Street). In addition, concentrations of cis-1,2-DCE in soil vapor ranged from non-detect at SV-4, SV-5a, and SV-5b (located on the eastern portions of the property) up to 379 $\mu\text{g}/\text{m}^3$ at SV-2b (located in the south portion of 98b South 4th Street). The concentrations of PCE, TCE, and cis-1,2 in soil vapor are lower beneath the central and eastern portions of the property, with the highest concentrations located in the southwest portion of the property. Finally, an elevated concentration of carbon tetrachloride was detected in one (1) of the nine (9) soil vapor samples at SV-5b. Based on the lack of evidence of this compound in the other soil vapor samples (or historic soil data), it appears that this detection is an anomaly, and not an indication of contamination present beneath the property in this area. The presence of this compound will be further investigated during the second phase of the Remedial Investigation, which will include soil sampling in this area.
- The concentrations of PCE in indoor air ranged from 0.292 $\mu\text{g}/\text{m}^3$ at IA-4e (located in ground floor apartment #E, located within 100 South 4th Street) up to 2.55 $\mu\text{g}/\text{m}^3$ at IA-4c (located in ground floor apartment #C, located within 100 South 4th Street). The TCE concentrations in indoor air ranged from non-detect at IA-4d and IA-4e (located in ground floor apartments #D and #E, located within 100 South 4th Street) up to 2.14 $\mu\text{g}/\text{m}^3$ at IA-3 (located in 98c South 4th Street). In addition, concentrations of carbon tetrachloride in indoor air ranged from 0.39 $\mu\text{g}/\text{m}^3$ at IA-4a (located in ground floor apartment #A, located within 100 South 4th Street) up to 0.591 $\mu\text{g}/\text{m}^3$ at IA-4c (located in ground

floor apartment #C, located within 100 South 4th Street). The concentrations of PCE and TCE in indoor air across the Site vary only marginally.

- Ambient concentrations of PCE and carbon tetrachloride were detected in the outdoor air sample OA-1, at concentrations of 0.325 µg/m³ and 0.491 µg/m³ respectively. These detections in outdoor air may be contributing to the indoor air detections of PCE and carbon tetrachloride, although likely to a minimal extent.
- Source Area: The most prevalent COCs identified at the Site requiring mitigation, based on the NYSDOH Decision Matrices are PCE, TCE, and cis-1,2, chlorinated VOCs associated with metal-cleaning and degreasing, which may have been utilized during the property's usage as a manufacturing facility, or may be migrating onto the site from documented off-site cVOC sources to the south. Based on the distribution of the cVOCs detected in soil vapor, the potential source area for the cVOC at the Site is the southwest portion of the Site, proximal to the south adjoining BCP Site.

The conclusions are summarized as follows:

1. The SVI RI determined the degree and extent of on-site soil vapor contamination from past Site operations as a metal fabricating/manufacturing facility, or from off-site sources to the south.
2. Thus far, the analytical data gathered during the SVI RI is not sufficient to develop a remedy for the Site. The second phase of the RI, including additional soil and groundwater sampling will be performed. Once all components of the RIWP have been completed and reported, the proposed remedy will be described and evaluated in a Remedial Action Work Plan (RAWP) prepared in accordance with NYSDEC BCP guidelines.
3. IEC proposes that, based on the ongoing residential and commercial occupancy of the property, and confirmed presence of elevated concentrations of cVOCs in the soil vapor at the Site, an Interim Remedial Measure (IRM) be prepared. The IRM will propose measures to address the on-Site soil vapor contamination to ensure continued protection of human health and the environment.

7.1 Project Schedule

IEC anticipates that the second phase of the Remedial Investigation, comprising of comprehensive soil and groundwater sampling and analysis, will commence in August/September 2021.

8 REFERENCES

1. Ecosystems Strategies, Inc., Summary Report of Phase II Environmental Services, dated January 23, 1997.
2. Ecosystems Strategies, Inc., Summary Report of Subsurface Investigation, dated April 7, 1997.
3. Ecosystems Strategies, Inc., Final Work Plan for Site Closure Activities, dated December 3, 1997.
4. Ecosystems Strategies, Inc., Summary Report of Subsurface Investigative Services, dated March 26, 1999.
5. Nova Consulting, Phase I ESA Report, dated February 16, 2018 (with information from the Don Carlo Phase II Subsurface Investigation and Tank Closure Report, dated April 2006).
6. Impact Environmental Closures, Inc., Phase I ESA Report, dated May 23, 2019.
7. Excel Environmental Resources, Inc., Draft Vapor Intrusion Assessment Report, dated April 2019.
8. New York State Department of Environmental Conservation Department of Environmental Remediation DER-10 Technical Guidance for Site Investigation and Remediation dated May 3, 2010.
9. New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and the subsequent updates.

FIGURES

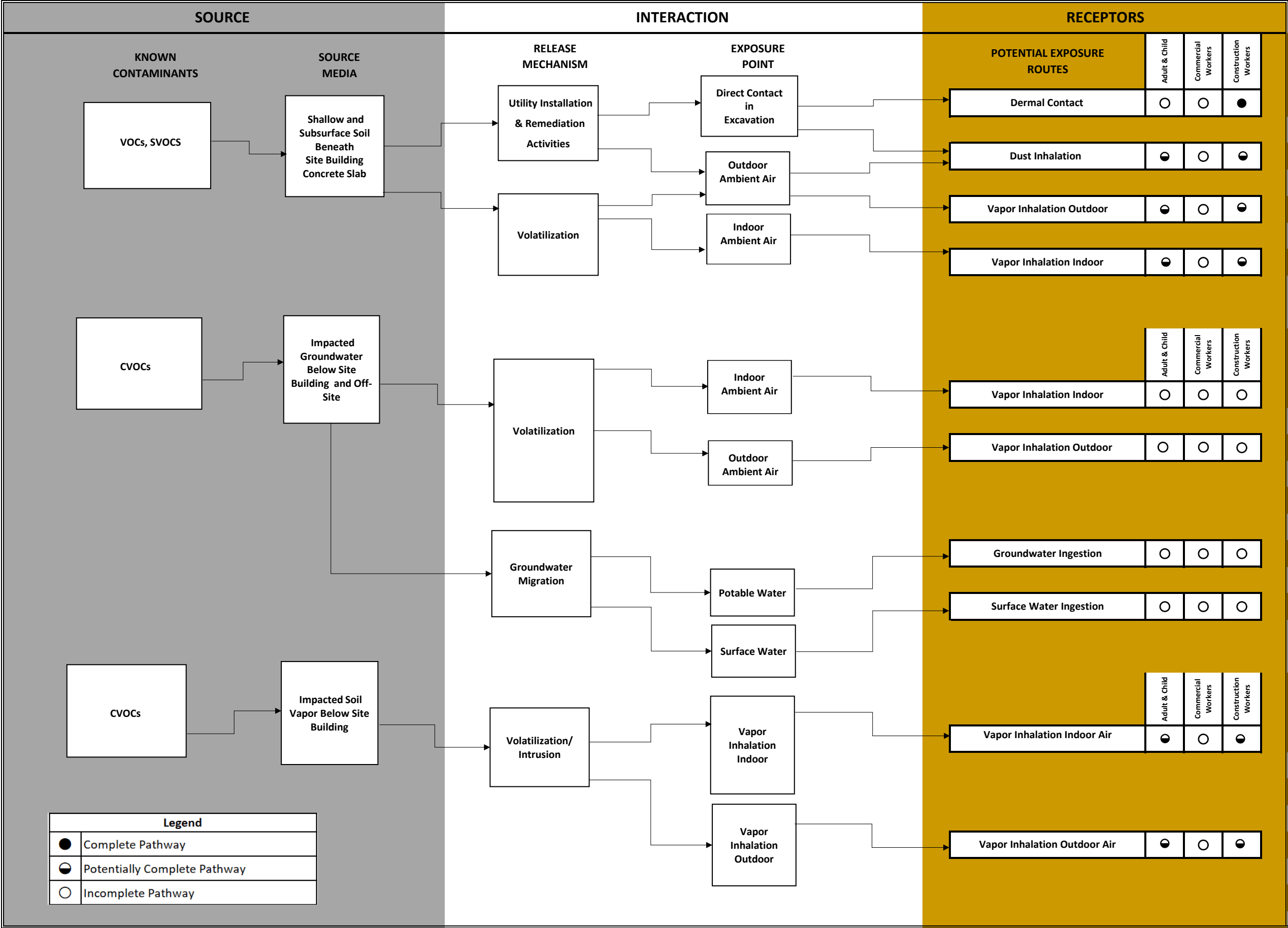
98, 100, and 104 South 4th Street, Brooklyn,
NY

NYSDEC BCP #C224260



IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599

FIGURE 1: CONCEPTUAL SITE MODEL



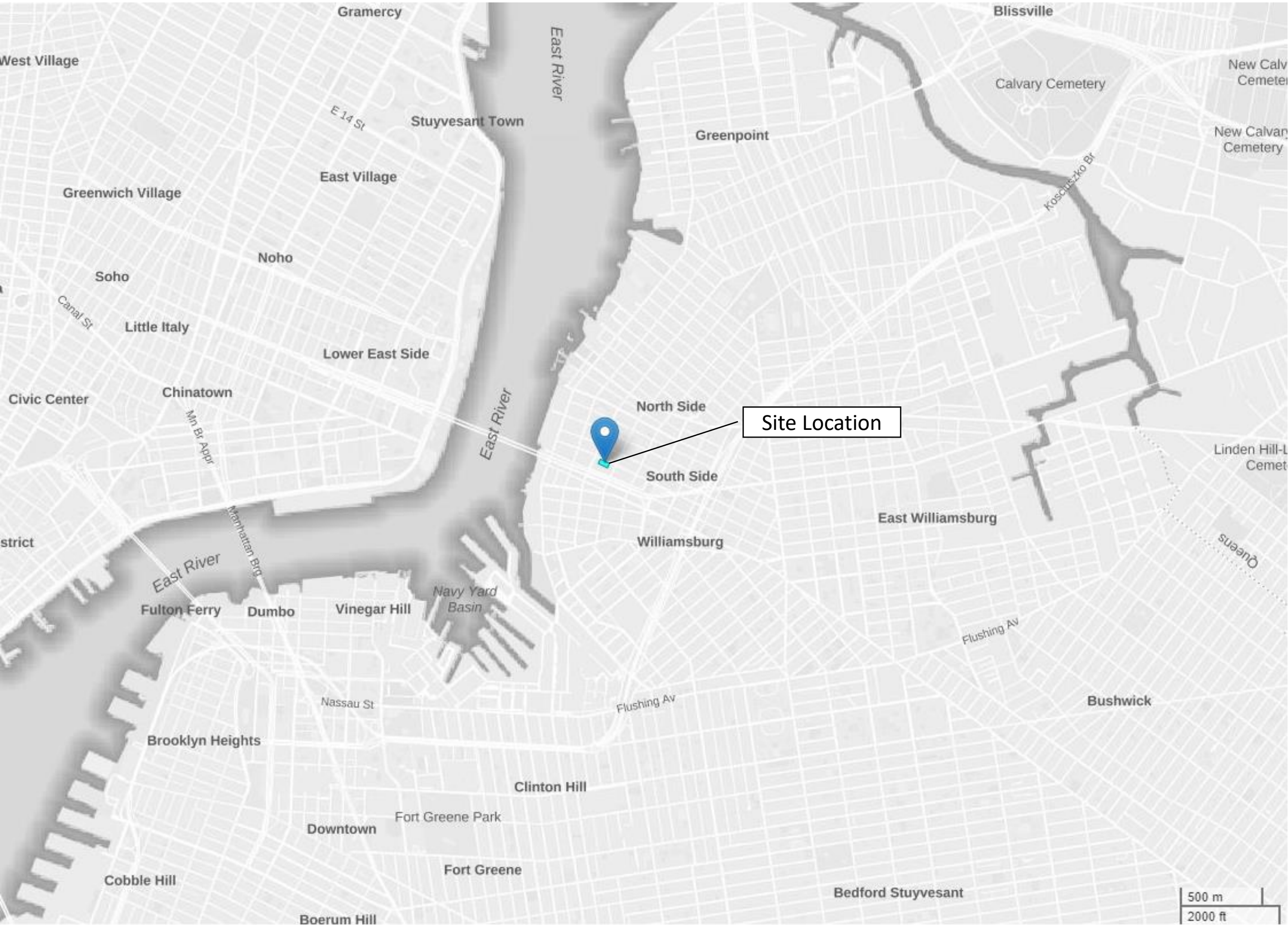
PLATES

98, 100, and 104 South 4th Street, Brooklyn,
NY

NYSDEC BCP #C224260



IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599

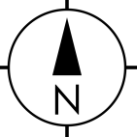


Legend

Notes:

Base map: NYCOER SPEED Map

SITE LOCATION MAP

100 South 4th Street, Brooklyn, NY	Plate 1	
	PROJECT #	13817
	DRAWN BY	CIC
	CHECKED BY	KK
 Not to scale	DATE	5/21/21
	Revisions	

IMPACT ENVIRONMENTAL CLOSURES, INC.

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800
FAX (631) 269-1599



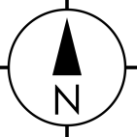


Legend

Notes:

Base Map: NYC OASIS Map

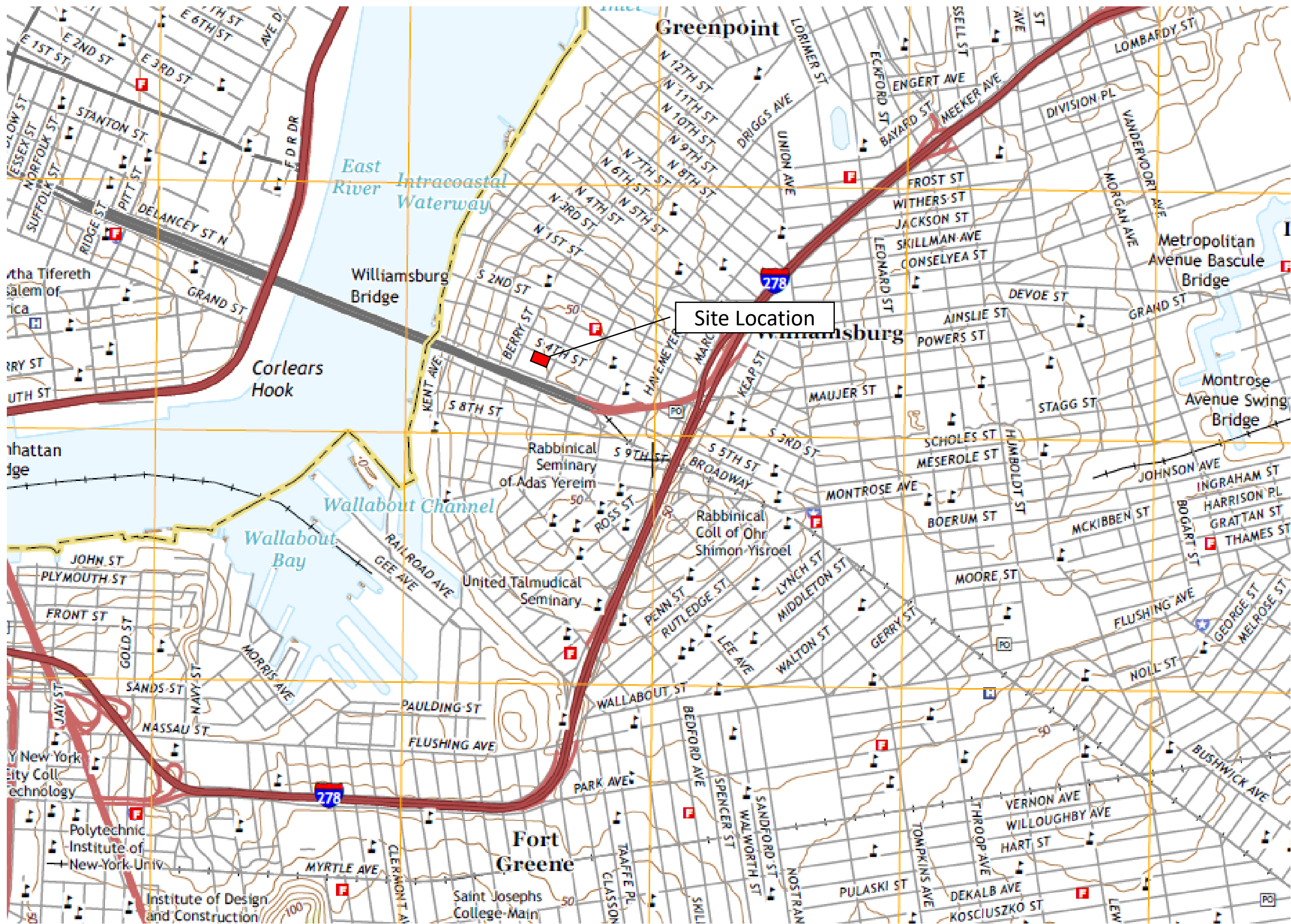
SITE AREA MAP

100 South 4th Street, Brooklyn, NY	Plate 2	
	PROJECT #	13817
	DRAWN BY	CIC
	CHECKED BY	KK
 Not to scale	DATE	5/21/21
	Revisions	

IMPACT ENVIRONMENTAL CLOSURES, INC.

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800
FAX (631) 269-1599





Legend

Notes:

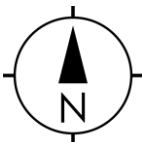
Base Map: USGS Brooklyn
Quadrangle Topographic Map

SITE TOPOGRAPHIC MAP

100 South 4th
Street, Brooklyn,
NY

Plate 3

PROJECT #	13817
DRAWN BY	CIC
CHECKED BY	KK
DATE	5/21/21



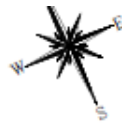
Not to scale

Revisions

IMPACT ENVIRONMENTAL
CLOSURES, INC.

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800
FAX (631) 269-1599





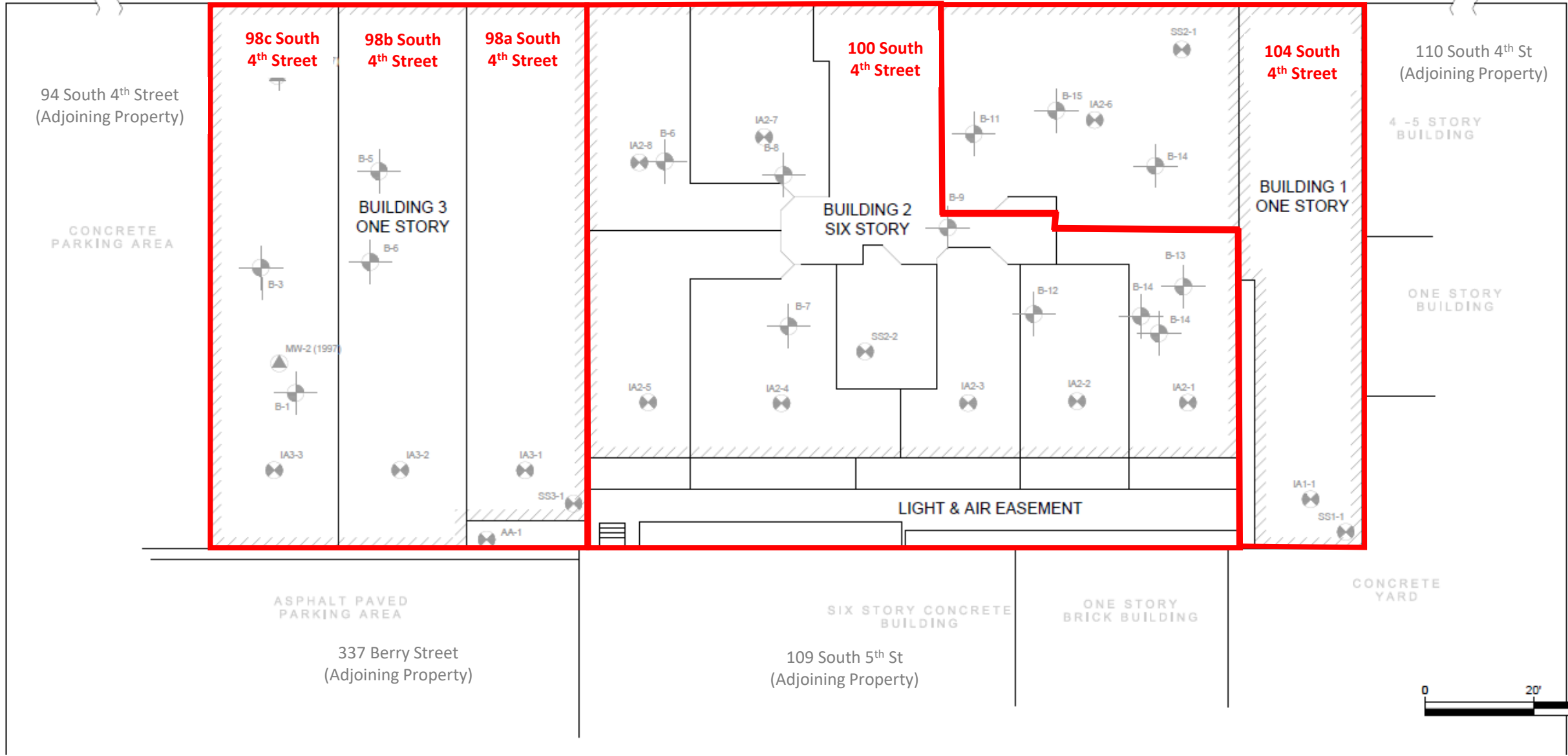
SOUTH 4TH STREET

MW-3 (1997)

MW-4 (1997)

BERRY STREET

BEDFORD AVENUE



Legend



Property Boundaries

Notes:

SITE PLAN

100 South 4th Street, Brooklyn, NY

Plate 4

PROJECT #	13817
DRAWN BY	CJC
CHECKED BY	KK
DATE	5/21/21



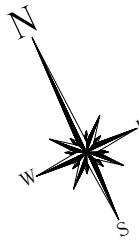
Not to scale

Revisions

IMPACT ENVIRONMENTAL CLOSURES, INC.

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800
FAX (631) 269-1599





BERRY STREET

BEDFORD AVENUE

SOUTH 4TH STREET

B-2 (12/11/1996)	0' - 2'	5' - 7'	15' - 17'	PGW	RR
Toluene	ND	1.4	ND	0.7	100
Tetrachloroethene	5.5	ND	ND	1.3	19
1,1,1-Trichloroethane	ND	0.071	ND	0.68	100
Trichloroethene	3.7	ND	ND	0.47	21
cis-1,2-dichloroethene	ND	ND	ND	0.25	100
Acenaphthene	ND	NA	NA	98	100
Anthracene	1.2	NA	NA	1000	100
Benzo(a)anthracene	3.3	NA	NA	1	1
Benzo(a)pyrene	2.9	NA	NA	22	1
Benzo(b)fluoranthene	4	NA	NA	1.7	1
Benzo(k)fluoranthene	1.5	NA	NA	1.7	3.9
Benzo(g,h,i)perylene	1.5	NA	NA	1000	100
Chrysene	3.5	NA	NA	1	3.9
Fluoranthene	7.3	NA	NA	1000	100
Indeo(1,2,3-cd)pyrene	1.3	NA	NA	8.82	0.5
Naphthalene	ND	NA	NA	12	100
Phenanthrene	6.1	NA	NA	1000	100
Pyrene	6.1	NA	NA	1000	100

B-5 (4/1/1997)	6' - 2'	4' - 6'	8' - 10'	PGW	RR
Acetone	0.046	ND	ND	0.05	100
Tetrachloroethene	0.063	0.002	0.004	1.3	19
Trichloroethene	0.1	0.005	0.007	0.47	21
Methylene Chloride	0.023	ND	ND	0.05	100
Acenaphthene	1.1	ND	ND	98	100
Anthracene	1.6	ND	ND	1000	100
Benzo(a)anthracene	4.3	0.078	ND	1	1
Benzo(a)pyrene	3.8	ND	ND	22	1
Benzo(b)fluoranthene	6.7	ND	ND	1.7	1
Benzo(k)fluoranthene	1.8	ND	ND	1.7	3.9
Benzo(g,h,i)perylene	1.6	ND	ND	1000	100
Chrysene	4.5	78J	ND	1	3.9
Fluorene	0.6	ND	ND	386	100
Fluoranthene	9.7	0.17	ND	1000	100
Indeo(1,2,3-cd)pyrene	1.5	ND	ND	8.2	0.5
Naphthalene	1	ND	ND	12	100
Phenanthrene	9	0.13	ND	1000	100
Pyrene	8	0.14	ND	1000	100
Dibenzo(a,h)anthracene	0.51	ND	ND	1000	0.33

B-8 (4/1/1997)	6' - 2'	PGW	RR
Tetrachloroethene	0.003	1.3	19
Trichloroethene	0.014	0.47	21
Benzo(a)anthracene	0.13	1	1
Benzo(b)fluoranthene	0.14	1.7	1
Chrysene	0.13	1	3.9
Phenanthrene	0.11	1000	100
Pyrene	0.2	1000	100

B-15 (3/19/1999)	0' - 2'	12'	PGW	RR
Trichloroethene	0.007	ND	0.47	21

B-11 (3/19/1999)	0' - 2'	12'
Non-Detect or Not Analyzed		

4 - 5 STORY BUILDING

B-14 (3/19/1999)	0' - 2'	12'
Non-Detect or Not Analyzed		

BUILDING 1 ONE STORY

B-13 (3/19/1999)	-
Refusal	

ONE STORY BUILDING

B-10 (4/1/1997)	-
Refusal	

B-16 (3/19/1999)	0' - 2'	8'	PGW	RR
Trichloroethene	0.005	ND	0.47	21

LIGHT & AIR EASEMENT

STORY CONCRETE BUILDING

ONE STORY BRICK BUILDING

CONCRETE YARD



B-3 (4/1/1997)	6' - 2'	4' - 6'	8' - 10'	PGW	RR
Tetrachloroethene	0.006	0.055	0.004	1.3	19
Trichloroethene	0.003	0.018	0.003	0.47	21
Acenaphthene	0.79	ND	ND	98	100
Anthracene	1.6	ND	0.082	1000	100
Benzo(a)anthracene	3.1	ND	0.2	1	1
Benzo(a)pyrene	2.6	ND	0.16	22	1
Benzo(b)fluoranthene	3.3	ND	0.21	1.7	1
Benzo(k)fluoranthene	1.2	ND	0.008	1.7	3.9
Benzo(g,h,i)perylene	1.2	ND	ND	1000	100
Chrysene	3	ND	0.2	1	3.9
Fluorene	0.830	ND	ND	386	100
Fluoranthene	6.9	0.095	0.48	1000	100
Indeo(1,2,3-cd)pyrene	1.2	ND	ND	8.2	0.5
Naphthalene	0.56	ND	ND	12	100
Phenanthrene	7.1	0.099	0.4	1000	100
Pyrene	5.9	0.082	0.38	1000	100
Dibenzo(a,h)anthracene	0.32	ND	ND	0.33	

B-1 (12/11/1996)	0' - 2'	15' - 17'	PGW	RR
Tetrachloroethene	0.17	ND	1.3	19
Trichloroethene	0.56	ND	0.47	21
cis-1,2-dichloroethene	0.12	ND	0.25	100
Acenaphthene	1.4	ND	98	100
Anthracene	3	ND	1000	100
Benzo(a)anthracene	7.9	ND	1	1
Benzo(a)pyrene	6	ND	22	1
Benzo(b)fluoranthene	7.1	ND	1.7	1
Benzo(k)fluoranthene	2.5	ND	1.7	3.9
Benzo(g,h,i)perylene	2.3	ND	1000	100
Chrysene	9	ND	1	3.9
Fluoranthene	14	ND	1000	100
Indeo(1,2,3-cd)pyrene	1.9	ND	8.82	0.5
Naphthalene	3.4	ND	12	100
Phenanthrene	19	ND	1000	100
Pyrene	19	ND	1000	100

B-4 (4/1/1997)	6' - 2'	4' - 6'	8' - 10'	PGW	RR
Acetone	ND	0.056	0.037	0.05	100
Tetrachloroethene	0.37	0.059	0.032	1.3	19
Trichloroethene	1.1	0.15	0.066	0.47	21
Acenaphthene	0.12	0.48	0.1	78	100
Acenaphthylene	ND	0.1	0.068	107	100
Anthracene	0.38	0.89	0.38	1000	100
Benzo(a)anthracene	1.2	2.4	0.87	1	1
Benzo(a)pyrene	1.1	2.1	0.88	22	1
Benzo(b)fluoranthene	1.4	2.7	1.2	1.7	1
Benzo(k)fluoranthene	0.56	0.89	0.41	1.7	3.9
Benzo(g,h,i)perylene	0.35	0.86	0.34	1000	100
Chrysene	1.2	2.6	0.86	1	3.9
Fluorene	ND	0.43	ND	386	100
Fluoranthene	2.4	5.2	2	1000	100
Indeo(1,2,3-cd)pyrene	0.35	0.82	0.3	8.2	0.5
Naphthalene	ND	0.55	0.13	12	100
Phenanthrene	1.7	6	1.7	1000	100
Pyrene	2.2	5.1	2.6	1000	100
Dibenzo(a,h)anthracene	0.11	0.27	0.077	1000	0.33



IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1000 PAGE AVENUE
LYNHURST, NEW JERSEY 07071

TITLE:

**SOIL SAMPLE
LOCATION PLAN
COLLECTED 1997 &
1999**

SITE:

**100 SOUTH 4TH STREET
BROOKLYN NY
BLOCK: 2443 LOT: 13**

SHEET NO.

PLATE 5

PROJECT NO.	13817
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK/JDF
DATE:	08/23/2019
SCALE:	1" = 20'

REVISIONS

NO.	DATE:

NOTES:

1. BORINGS B-1 TO B-8: SAMPLE RESULTS TAKEN FROM THE FINAL WORK PLAN FOR SITE CLOSURE ACTIVITIES REPORT, PREPARED BY ECOSYSTEMS STRATEGIES, INC. DATED 3/12/1997.
2. BORINGS B-9 & B-11 TO B-16: SAMPLE RESULTS TAKEN FROM THE SUMMARY REPORT OF SUPPLEMENTAL SUBSURFACE INVESTIGATIVE SERVICES, PREPARED BY ESI DATED 26/03/1999.
3. SITE UNDERLAY AND PROPERTY LINES TAKEN FROM SURVEY PERFORMED BY BORO LAND SURVEYING, P.C. DATED APRIL 12, 2019.
4. CONTAMINANTS IDENTIFIED AS EXCEEDING THE PROTECTION OF GROUNDWATER-(PGW) SCOS LISTED IN 6NYCRR PART 375 ARE HIGHLIGHTED WITH A GRAY BACKGROUND.
5. CONTAMINANTS IDENTIFIED AS EXCEEDING THE RESTRICTED RESIDENTIAL SCOS-(RR) LISTED IN 6NYCRR PART 375 ARE HIGHLIGHTED IN **BOLD & UNDERLINE**.
6. "J" INDICATES RESULT BELOW LABORATORY'S DETECTION LIMIT.
7. CONCENTRATIONS ARE IN PARTS PER MILLION (PPM)

LEGEND:



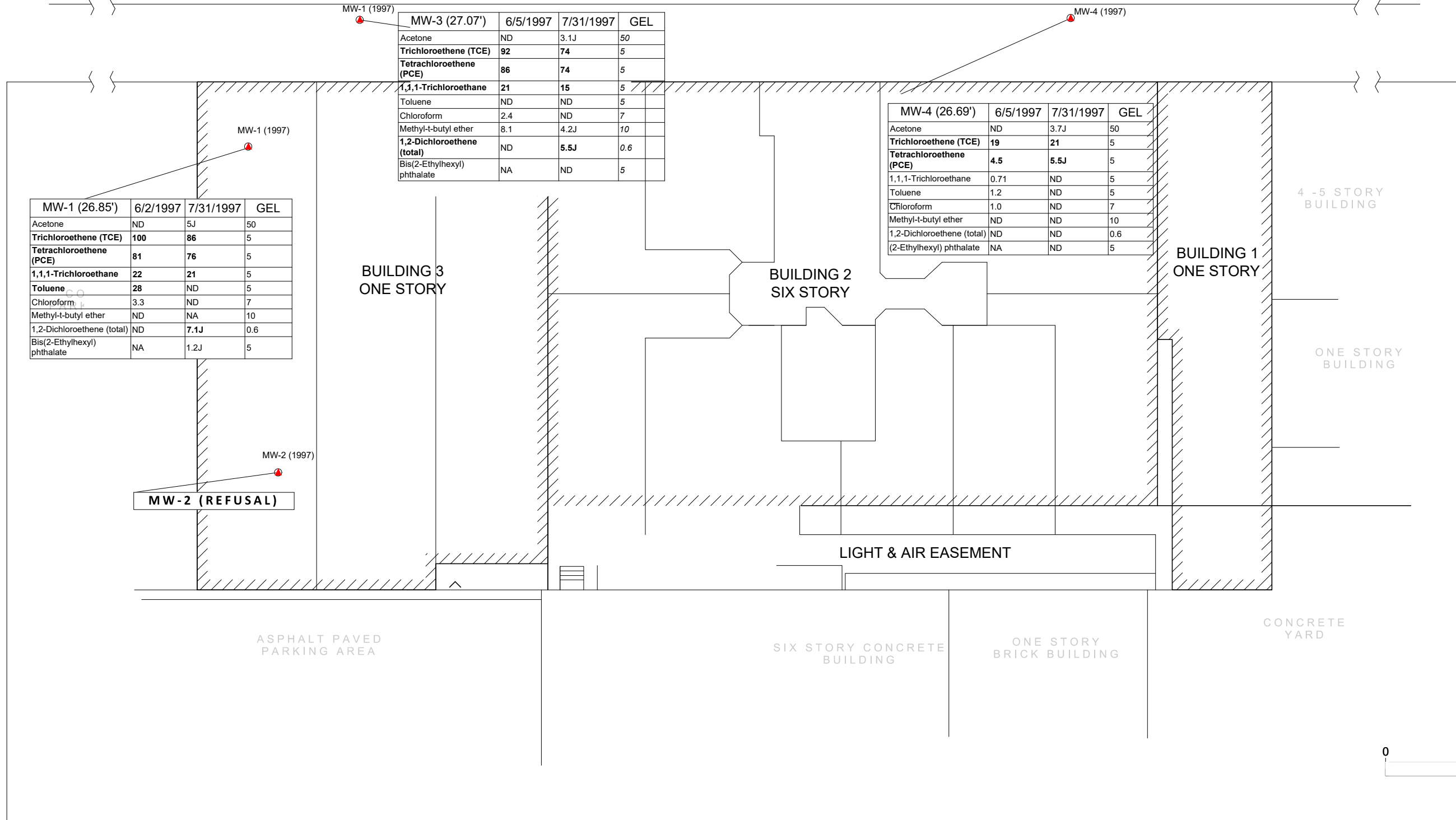
SOIL BORING



BERRY STREET

SOUTH 4TH STREET

BEDFORD AVENUE



IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599
1000 PAGE AVENUE
LYNDHURST, NEW JERSEY 07071

TITLE:

**GROUNDWATER
SAMPLE PLAN
COLLECTED 1997**

SITE:

**100 SOUTH 4TH STREET
BROOKLYN NY
BLOCK: 2443 LOT: 13**

SHEET NO.

PLATE 6

PROJECT NO.		DESIGNED BY:		DRAWN BY:		CHECKED BY:		DATE:		SCALE:	
13817		RD		RD		KK/JDF		08/23/2019		1" = 20'	

REVISIONS

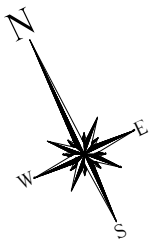
NO.	DATE:

NOTES:

- SAMPLE LOCATIONS & RESULTS TAKEN FROM "FIGURE 2: FIELD WORK MAP" OF THE FINAL WORK PLAN FOR SITE CLOSURE ACTIVITIES REPORT, PREPARED BY ECOSYSTEMS STRATEGIES, INC. DATED 3/12/1997. PROJECT NUMBER PB96146.40.
- SITE UNDERLAY AND PROPERTY LINES TAKEN FROM SURVEY PERFORMED BY BORO LAND SURVEYING, P.C. DATED APRIL 12, 2019.
- CONTAMINANTS IDENTIFIED AS EXCEEDING THE 6NYCRR PART 703.5 GROUNDWATER EFFLUENT LIMITATIONS (GEL) CLASS GA STANDARDS HAVE BEEN HIGHLIGHTED IN **BOLD**.
- "J" IDENTIFIER INDICATES RESULT BELOW LABORATORY'S DETECTION LIMIT.
- CONCENTRATIONS ARE REPORTED IN PPB

LEGEND:

 GROUNDWATER MONITORING WELL

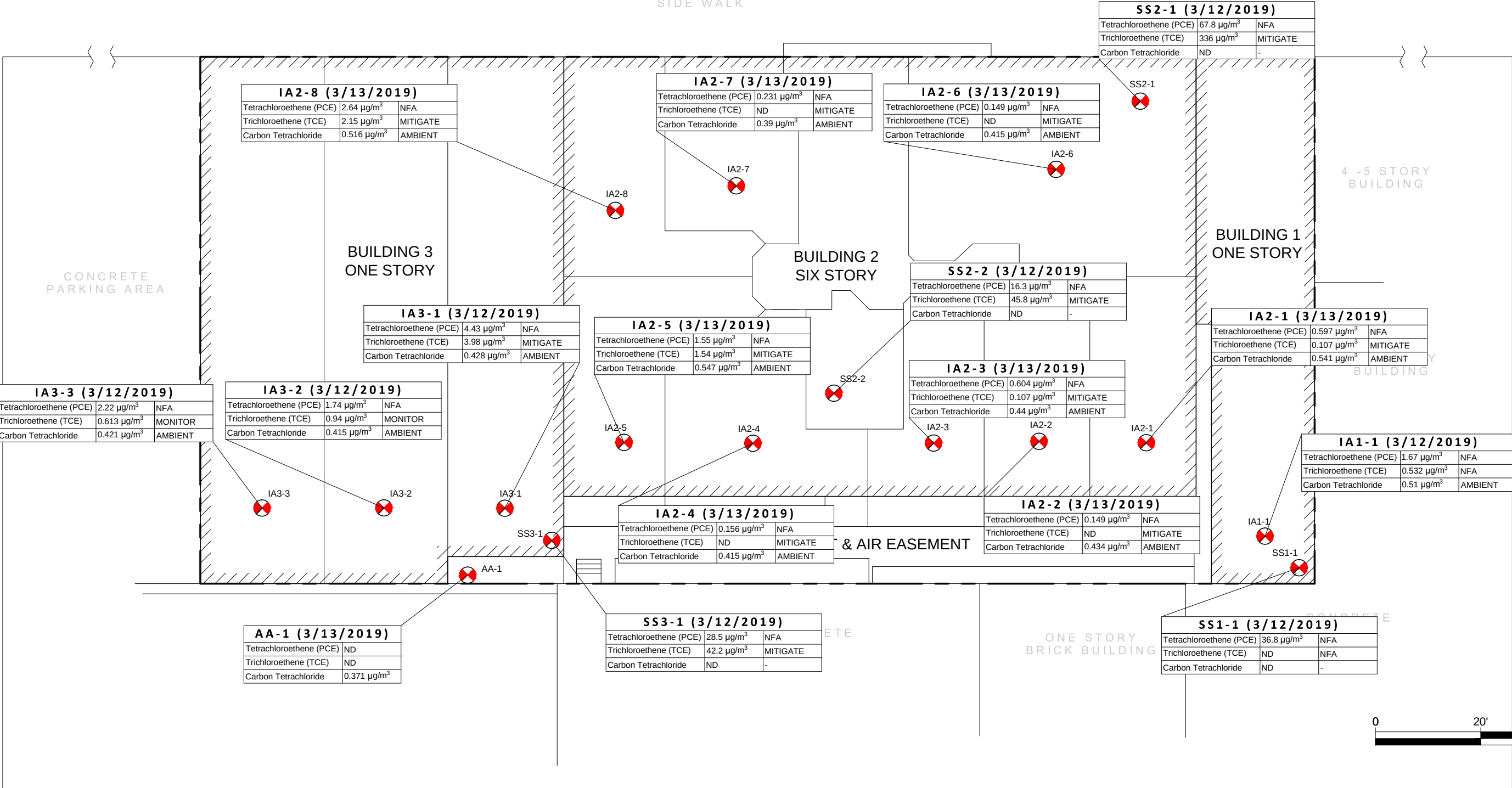


SOUTH 4TH STREET

SIDE WALK

BERRY STREET

BEDFORD AVENUE





IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599
1000 PAGE AVENUE
LYNDHURST, NEW JERSEY 07071

TITLE:
**SOIL VAPOR & AIR
SAMPLE LOCATION
PLAN
COLLECTED 2019**

SITE:
**100 SOUTH 4TH STREET
BROOKLYN NY
BLOCK: 2443 LOT: 13**

SHEET NO.		REVISIONS	
PLATE 7		NO:	DATE:
PROJECT NO.	13817		
DESIGNED BY:	RD		
DRAWN BY:	RD		
CHECKED BY:	KKJDF		
DATE:	08/23/2019		
SCALE:	1" = 20'		

NOTES:
1. SAMPLE LOCATIONS & RESULTS TAKEN FROM "FIGURE 2" OF THE VAPOR INTRUSION ASSESSMENT REPORT, PREPARED BY EXCEL ENVIRONMENTAL RESOURCES, DATED 4/10/19, PROJECT NUMBER 18597.
2. SITE UNDERLAY AND PROPERTY LINES TAKEN FROM SURVEY PERFORMED BY BORO LAND SURVEYING, P.C. DATED APRIL 12, 2019.
3. CONTAMINANTS & THEIR LOCATIONS, IDENTIFIED AS REQUIRING FURTHER ACTION BY THE NYSDOH DECISION MATRIX HAVE BEEN LISTED. ACTIONS ARE:
- NFA: NO FURTHER ACTION.
- AMBIENT: COMPOUND REPORTED IN AMBIENT AIR SAMPLE.
- MITIGATE: NEEDED TO MINIMIZE EXPOSURES ASSOCIATED WITH SVI.
- MONITOR: MONITOR TO DETERMINE APPLICABLE ACTION IF ANY.

LEGEND:

 GROUNDWATER MONITORING WELL

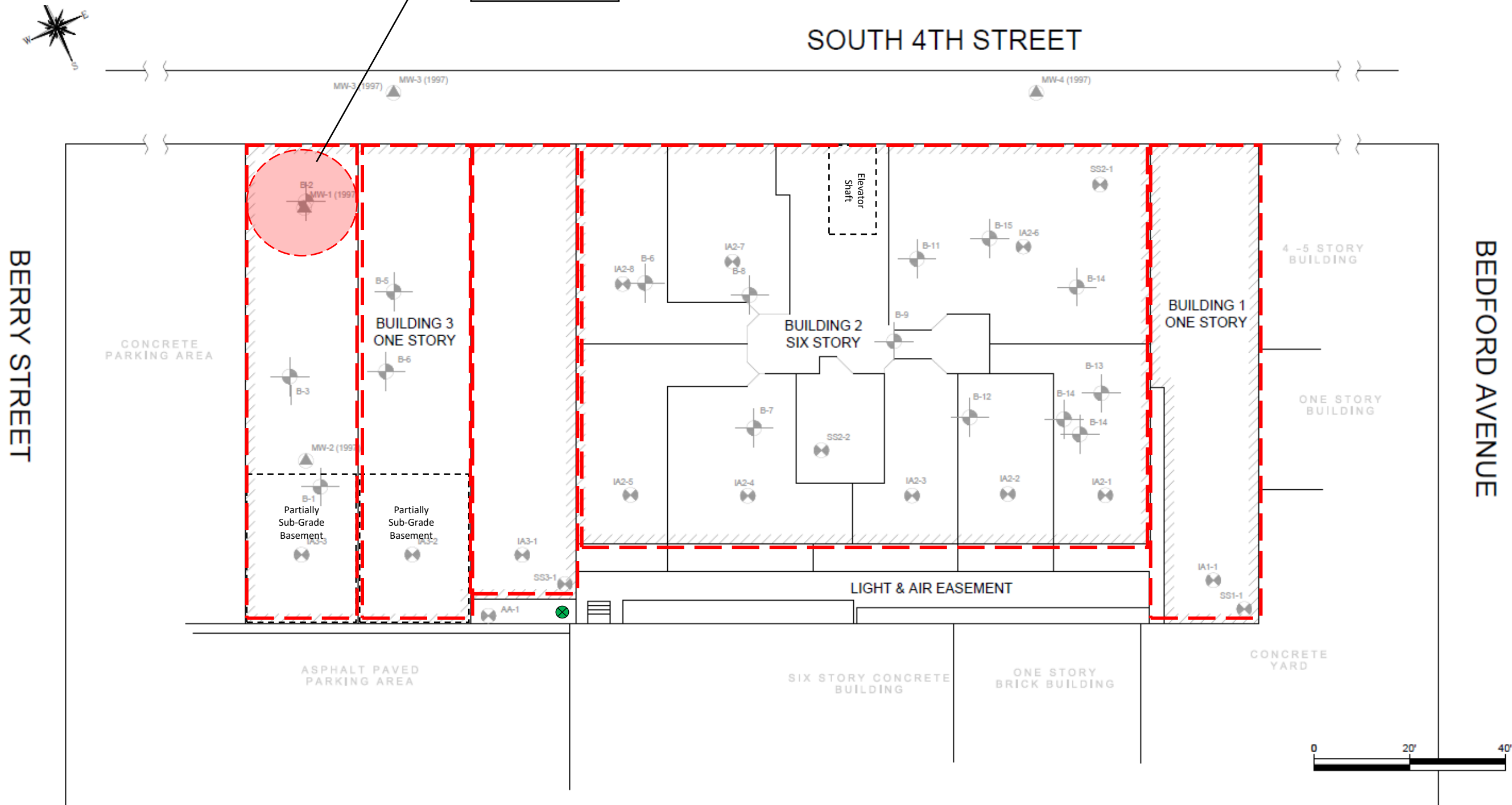
 SOIL BORING

 SOIL VAPOR/AIR SAMPLE POINT

 SUB-SLAB SAMPLE

 INDOOR AIR SAMPLE

 AMBIENT AIR SAMPLE



BERRY STREET

SOUTH 4TH STREET

BEDFORD AVENUE

Legend

Notes:

SITE PLAN WITH AOCs		
100 South 4 th Street, Brooklyn, NY	Plate 8	
	PROJECT #	13817
	DRAWN BY	CJC
	CHECKED BY	KK
 Not to scale	DATE	3/25/21
	Revisions	

IMPACT ENVIRONMENTAL CLOSURES, INC.

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800
FAX (631) 269-1599





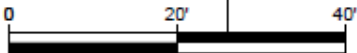
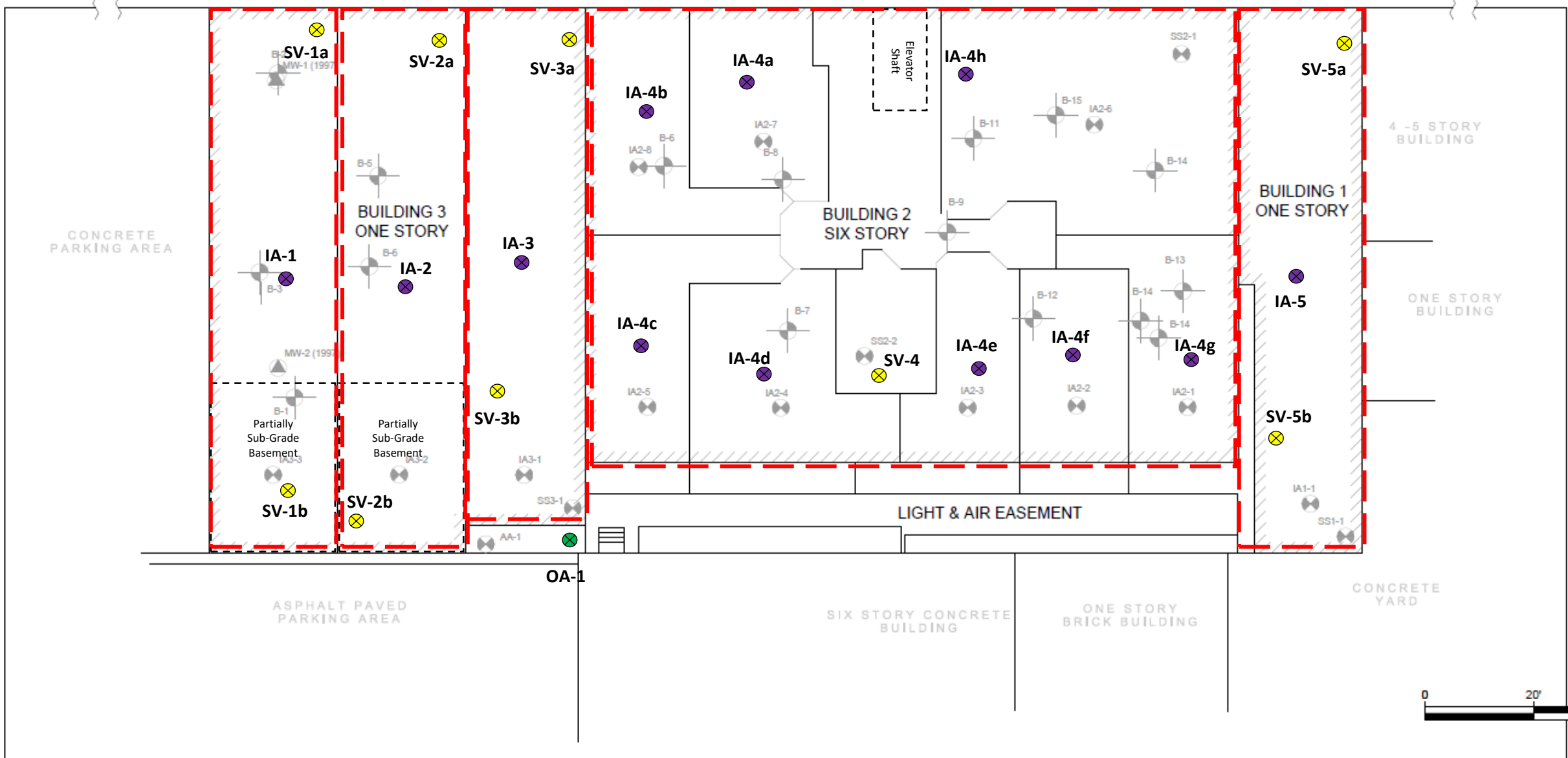
SOUTH 4TH STREET

MW-3 (1997)

MW-4 (1997)

BERRY STREET

BEDFORD AVENUE



Legend

Sub-Slab Soil Vapor
Sample Locations

Indoor Air Sample
Locations

Outdoor Ambient Air
Sample Locations

Notes:

SVI Sample Point Locations

100 South 4th
Street, Brooklyn,
NY

Plate 9

PROJECT #	13817
DRAWN BY	CJC
CHECKED BY	KK
DATE	3/25/21



Not to scale

Revisions

IMPACT ENVIRONMENTAL
CLOSURES, INC.

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800
FAX (631) 269-1599



Sample ID	SV-1A	SV-1B	IA-1	NYSDOH Matrices Decision
Date	3/12/2021		Indoor Air	
Sample Type	Sub Slab	Sub Slab	Air	
Unit	µg/m³			
Volatile Organics in Air				
1,1,1-Trichloroethane	7.09	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	ND	0.396	NFA
cis-1,2-Dichloroethene	7.65	88	ND	NFA/MITIGATE
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	46	1,240	1.11	NFA/MITIGATE
Trichloroethene	120	1000	0.435	MITIGATE/MITIGATE
Vinyl chloride	ND	ND	ND	NFA

Sample ID	SV-3A	SV-3B	IA-3	NYSDOH Matrices Decision
Date	3/12/2021		Indoor Air	
Sample Type	Sub Slab	Sub Slab	Air	
Unit	µg/m³			
Volatile Organics in Air				
1,1,1-Trichloroethane	3.79	1.58	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	ND	0.403	NFA
cis-1,2-Dichloroethene	20	24.1	ND	NFA
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	460	138	2.09	NFA
Trichloroethene	967	321	2.14	MITIGATE/MITIGATE
Vinyl chloride	ND	ND	ND	NFA

Sample ID	SV-5A	SV-5B	IA-5	NYSDOH Matrices Decision
Date	3/12/2021		Indoor Air	
Sample Type	Sub Slab	Sub Slab	Air	
Unit	µg/m³			
Volatile Organics in Air				
1,1,1-Trichloroethane	ND	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	2.68	0.585	NFA/IDENTIFY SOURCES and RESAMPLE or MITIGATE
cis-1,2-Dichloroethene	ND	ND	ND	NFA
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	9.56	59.8	1.04	NFA
Trichloroethene	7.9	5.7	0.296	NFA/MONITOR
Vinyl chloride	ND	ND	ND	NFA

Legend

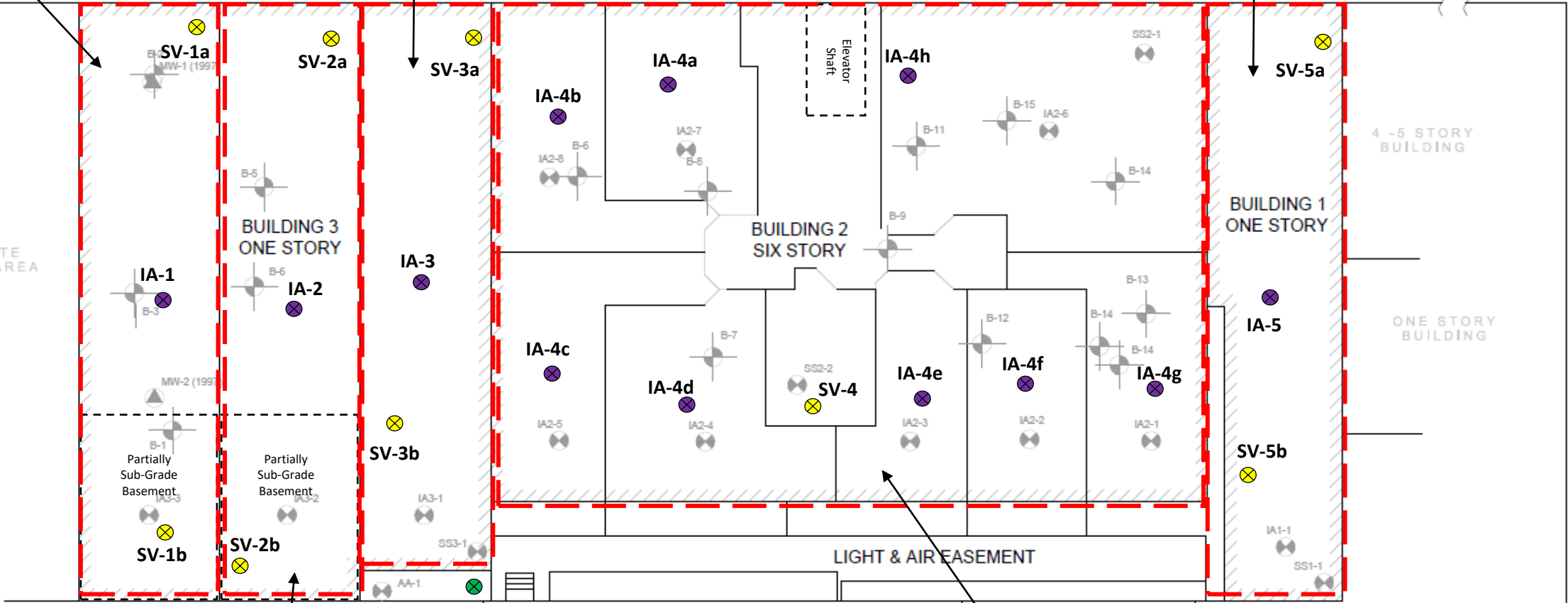
Sub-Slab Soil Vapor Sample Locations

Indoor Air Sample Locations

Outdoor Ambient Air Sample Locations

BERRY STREET

BEDFORD AVENUE



Sample ID	SV-2A	SV-2B	IA-2	NYSDOH Matrices Decision
Date	3/12/2021		Indoor Air	
Sample Type	Sub Slab	Sub Slab	Air	
Unit	µg/m³			
Volatile Organics in Air				
1,1,1-Trichloroethane	ND	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	ND	0.421	NFA
cis-1,2-Dichloroethene	5.35	379	ND	NFA/MITIGATE
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	5.2	2710	0.787	NFA/MITIGATE
Trichloroethene	16.5	3260	0.408	MONITOR/MITIGATE
Vinyl chloride	0.537	ND	ND	NFA

Sample ID	SV-4	IA-4A	IA-4B	IA-4C	IA-4D	IA-4E	IA-4F	IA-4G	IA-4H	NYSDOH Matrices
Date	3/12/2021									
Sample Type	Sub Slab	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	
Unit	µg/m³									
Volatile Organics in Air										
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
Carbon tetrachloride	ND	0.39	0.421	0.591	0.459	0.478	0.547	0.591	0.535	NFA
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
Tetrachloroethene	4.66	1.04	1.02	2.55	0.387	0.292	0.448	0.57	0.502	NFA
Trichloroethene	21	0.344	0.908	1.23	ND	ND	0.516	0.333	0.253	NFA/MONITOR/MITIGATE
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA

Notes:
All results are in µg/m3: micrograms per cubic meter
ND – Not detected
NFA – No further action

SVI Sample Analysis NYSDOH Exceedances

100 South 4th Street, Brooklyn, NY

Plate 10

PROJECT #	13817
DRAWN BY	CJC
CHECKED BY	KK
DATE	3/25/21



Not to scale

IMPACT ENVIRONMENTAL CLOSURES, INC.

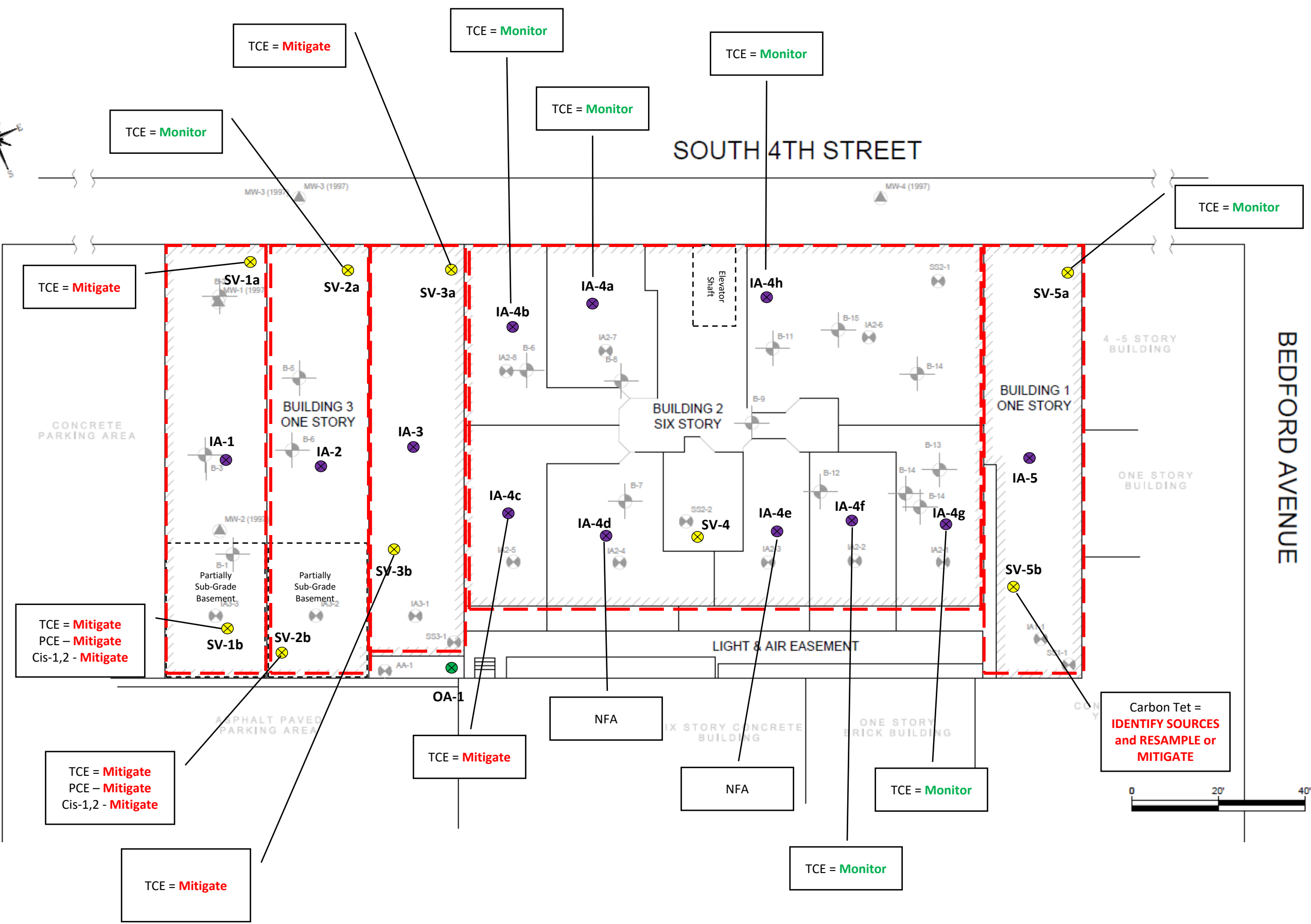
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800
FAX (631) 269-1599



BERRY STREET

BEDFORD AVENUE

SOUTH 4TH STREET



Legend

Sub-Slab Soil Vapor Sample Locations

Indoor Air Sample Locations

Outdoor Ambient Air Sample Locations

Notes:

SVI Decision Matrices Results Map

100 South 4th Street, Brooklyn, NY

Plate 11

PROJECT #	13817
DRAWN BY	CJC
CHECKED BY	KK
DATE	3/25/21



Not to scale

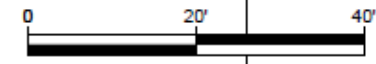
Revisions	

IMPACT ENVIRONMENTAL CLOSURES, INC.

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800
FAX (631) 269-1599



Carbon Tet =
**IDENTIFY SOURCES
and RESAMPLE or
MITIGATE**



TABLES

98, 100, and 104 South 4th Street, Brooklyn,
NY

NYSDEC BCP #C224260



IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599

Table 1
Quality Control Sample Summary
100 south 4th Street, Brooklyn, NY

LOCATION			SV-1A		SV-DUP-1		SV-4		SV-DUP-2		IA-4A		IA-DUP-1		IA-5		IA-DUP-2
SAMPLING DATE			3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021
LAB SAMPLE ID			L2112425-01		L2112425-10		L2112425-07		L2112425-11		L2112425-15		L2112425-24		L2112425-23		L2112425-25
SAMPLE TYPE			SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		AIR		AIR		AIR		AIR
	IA Guidance	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results
Volatile Organics in Air																	
Dichlorodifluoromethane		ug/m3	2.02		1.99		2.88		2.49		2.02		2.46		2.43		2.43
Chloromethane		ug/m3	0.413	U	0.413	U	0.413	U	0.77		1.1		1.08		0.983		0.977
Freon-114		ug/m3	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4
Vinyl chloride		ug/m3	0.511	U	0.511	U	0.511	U	0.511	U	-	-	-	-	-	-	-
1,3-Butadiene		ug/m3	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442
Bromomethane		ug/m3	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777
Chloroethane		ug/m3	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528
Ethanol		ug/m3	153		129		46		79.1		889		825		903		880
Vinyl bromide		ug/m3	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874
Acetone		ug/m3	458		285		9.17		14.2		36.3		39		24.2		24
Trichlorofluoromethane		ug/m3	1.12	U	1.12	U	1.12	U	1.12	U	1.27		1.89		6.24		5.96
Isopropanol		ug/m3	15.5		15.5		10.3		24.2		230		256		117		114
1,1-Dichloroethene		ug/m3	0.793	U	0.793	U	0.793	U	0.793	U	-	-	-	-	-	-	-
Tertiary butyl Alcohol		ug/m3	5.21		1.54		2.37		5.4		1.52	U	1.52	U	1.52	U	1.52
Methylene chloride	60	ug/m3	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74
3-Chloropropene		ug/m3	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626
Carbon disulfide		ug/m3	0.623	U	1.25		0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623
Freon-113		ug/m3	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53
trans-1,2-Dichloroethene		ug/m3	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793
1,1-Dichloroethane		ug/m3	3.27		1.43		0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809
Methyl tert butyl ether		ug/m3	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721
2-Butanone		ug/m3	8.23		4.1		3.66		5.13		1.54		1.53		2.35		2.47
cis-1,2-Dichloroethene		ug/m3	7.65		2.56		0.793	U	0.793	U	-	-	-	-	-	-	-
Ethyl Acetate		ug/m3	1.8	U	1.8	U	1.8	U	1.8	U	2.64		3.44		8.9		8.58
Chloroform		ug/m3	1.9		1.99		10.6		3.14		0.977	U	0.977	U	1.32		1.26
Tetrahydrofuran		ug/m3	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U	1.47
1,2-Dichloroethane		ug/m3	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809
n-Hexane		ug/m3	0.782		0.705		0.705	U	0.705	U	0.871		0.853		0.705	U	0.747
1,1,1-Trichloroethane		ug/m3	4.68		1.09		1.09	U	1.09	U	-	-	-	-	-	-	-
Benzene		ug/m3	0.837		0.677		0.639	U	0.639	U	1.09		1.07		1.05		1.06
Carbon tetrachloride		ug/m3	1.26	U	1.26	U	1.26	U	1.26	U	-	-	-	-	-	-	-
Cyclohexane		ug/m3	0.688	U	0.688	U	0.688	U	0.688	U	1.94		1.83		0.688	U	0.688
1,2-Dichloropropane		ug/m3	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924
Bromodichloromethane		ug/m3	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34
1,4-Dioxane		ug/m3	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721
Trichloroethene	2	ug/m3	120		90.8		21		16.3		-	-	-	-	-	-	-
2,2,4-Trimethylpentane		ug/m3	0.934	U	0.934	U	0.934	U	0.934	U	0.934	U	0.934	U	0.934	U	0.934
Heptane		ug/m3	0.82	U	0.82	U	0.82	U	0.82	U	35.1		34.6		0.828		0.836
cis-1,3-Dichloropropene		ug/m3	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908
4-Methyl-2-pentanone		ug/m3	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U	2.05
trans-1,3-Dichloropropene		ug/m3	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908
1,1,2-Trichloroethane		ug/m3	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09
Toluene		ug/m3	2.08		1.99		2.22		3.84		5.31		5.16		2.8		2.78
2-Hexanone		ug/m3	1.31		0.82		0.885		1.52		0.82	U	0.82	U	0.82	U	0.82
Dibromochloromethane		ug/m3	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7
1,2-Dibromoethane		ug/m3	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54
Tetrachloroethene	30	ug/m3	46		38		4.66		5.66		-	-	-	-	-	-	-
Chlorobenzene		ug/m3	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921
Ethylbenzene		ug/m3	0.869	U	0.869	U	1.99		3.43		0.869	U	0.869	U	0.869	U	0.869
p/m-Xylene		ug/m3	1.74	U	1.74	U	3.53		6.21		1.92		2.09		1.98		1.87
Bromoform		ug/m3	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07
Styrene		ug/m3	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852
1,1,2,2-Tetrachloroethane		ug/m3	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37
o-Xylene		ug/m3	0.869	U	0.869	U	1.87		2.91		0.869	U	0.869	U	0.869	U	0.869
4-Ethyltoluene		ug/m3	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U	0.983
1,3,5-Trimethylbenzene		ug/m3	0.983	U	0.983	U	0.983	U	1.71		0.983	U	0.983	U	0.983	U	0.983
1,2,4-Trimethylbenzene		ug/m3	0.983	U	0.983	U	0.983	U	1.68		0.983	U	0.983	U	1.39		1.21
Benzyl chloride		ug/m3	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04
1,3-Dichlorobenzene		ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2
1,4-Dichlorobenzene		ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2
1,2-Dichlorobenzene		ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2
1,2,4-Trichlorobenzene		ug/m3	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48
Hexachlorobutadiene		ug/m3	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13
Volatile Organics in Air by SIM																	
Vinyl chloride		ug/m3	-	-	-	-	-	-	-	-	0.051	U	0.051	U	0.051	U	0.051
1,1-Dichloroethene		ug/m3	-	-	-	-	-	-	-	-	0.079	U	0.079	U	0.079	U	0.079
cis-1,2-Dichloroethene		ug/m3	-	-	-	-	-	-	-	-	0.079	U	0.079	U	0.079	U	0.079
1,1,1-Trichloroethane		ug/m3	-	-	-	-	-	-	-	-	0.109	U	0.109	U	0.109	U	0.109
Carbon tetrachloride		ug/m3	-	-	-	-	-	-	-	-	0.39		0.516		0.585		0.522
Trichloroethene	2	ug/m3	-	-	-	-	-	-	-	-	0.344		0.371		0.296		0.29
Tetrachloroethene	30	ug/m3	-	-	-	-	-	-	-	-	1.04		1.04		0.529		0.522

Notes:
IA Guidance - Ambient Air Guidance Values, NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion (Table 3.1)
Highlighted Value Above Table 3.1 Indoor Air Guidance Values
ug/m3 - micrograms per cubic meter
U - Not detected
BOLD - Analyte detected



Table 2
SVI Summary Table (All Results)
100 South 4th Street, Brooklyn, NY

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE		SV-1A 3/12/2021 L2112425-01 SOIL VAPOR		SV-1B 3/12/2021 L2112425-02 SOIL VAPOR		IA-1 3/12/2021 L2112425-12 AIR		SV-2A 3/12/2021 L2112425-03 SOIL VAPOR		SV-2B 3/12/2021 L2112425-04 SOIL VAPOR		IA-2 3/12/2021 L2112425-13 AIR		SV-3A 3/12/2021 L2112425-06 SOIL VAPOR		SV-3B 3/12/2021 L2112425-05 SOIL VAPOR		IA-3 3/12/2021 L2112425-14 AIR		SV-4 3/12/2021 L2112425-07 SOIL VAPOR		IA-4A 3/12/2021 L2112425-15 AIR		IA-4B 3/12/2021 L2112425-16 AIR		IA-4C 3/12/2021 L2112425-17 AIR		IA-4D 3/12/2021 L2112425-18 AIR		IA-4E 3/12/2021 L2112425-19 AIR		IA-4F 3/12/2021 L2112425-20 AIR		IA-4G 3/12/2021 L2112425-21 AIR		IA-4H 3/12/2021 L2112425-22 AIR		SV-5A 3/12/2021 L2112425-08 SOIL VAPOR		SV-5B 3/12/2021 L2112425-09 SOIL VAPOR		IA-5 3/12/2021 L2112425-23 AIR		IA-DUP-1 3/12/2021 L2112425-24 AIR		IA-DUP-2 3/12/2021 L2112425-25 AIR		SV-DUP-1 3/12/2021 SOIL VAPOR		SV-DUP-2 3/12/2021 SOIL VAPOR		OA-1 3/12/2021 L2112425-26 AIR			
		Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual								
Volatile Organics in Air																																																							
Dichlorodifluoromethane		ug/m3		2.02		3.09	U	1.99		2.02		9.89	U	2.08		2.91	U	2.1		2.13		2.88		2.02		2.05		2.5		2.26		2.49		2.48		2.46		1.95		2.05		2.43		2.46		1.99		2.49		2.41					
Chloromethane		ug/m3		0.413	U	1.29	U	0.888		0.413	U	4.13	U	0.964		1.21	U	0.413	U	0.989		0.413	U	1.1		1.33		1.67		0.975		1.03		1.23		1.08		0.413	U	0.413	U	0.983		1.08		0.977		0.413	U	0.77		0.892			
Freon-114		ug/m3		1.4	U	4.37	U	1.4	U	1.4	U	14	U	1.4	U	4.11	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U		
Vinyl chloride		ug/m3		0.511	U	1.6	U	-		0.537		5.11	U	-		1.5	U	0.511	U	-		0.511	U	-		-		-		-		-		-		0.511	U	0.511	U	-		0.511	U	0.511	U	-		0.511	U	0.511	U				
1,3-Butadiene		ug/m3		0.442	U	1.38	U	0.442	U	0.442	U	4.42	U	0.442	U	1.38	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.763		0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U		
Bromomethane		ug/m3		0.777	U	2.43	U	0.777	U	0.777	U	7.77	U	0.777	U	2.28	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U		
Chloroethane		ug/m3		0.528	U	1.65	U	0.528	U	0.528	U	5.28	U	0.528	U	1.55	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U		
Ethanol		ug/m3		153		795		28.6		524		937		447		415		492		203		46		889		196		1810		433		205		784		288		746		825		880		129		79.1		19.4							
Vinyl bromide		ug/m3		0.874	U	2.73	U	0.874	U	0.874	U	8.74	U	0.874	U	2.57	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U		
Acetone		ug/m3		458		21.1		2.38		19.9		304		47		6.98		53.7		18.2		9.17		36.3		15.6		67.5		31.4		62.7		24.7		55.8		12.6		24.2		39		24		185		14.2		6.39					
Trichlorofluoromethane		ug/m3		1.12	U	3.51	U	1.12	U	1.12	U	11.2	U	1.26		3.3	U	1.12		1.29		1.12	U	1.27		1.27		2.28		1.47		1.83		2.42		4.9		2.5		2.86		1.89		5.96		1.12	U	1.12	U	1.69					
Isopropanol		ug/m3		15.5		7.67		3.37		2.04		12.3		6.02		3.61	U	20.9		6.22		10.3		230		35.2		91.4		61.9		23.9		45.2		93.9		52.1		42.3		3.98		117		256		114		15.5		24.2		5.14	
1,1-Dichloroethene		ug/m3		0.793	U	2.48	U	-		0.793	U	7.93	U	-		2.33	U	0.793	U	-		0.793	U	-		-		-		-		-		-		-		0.793	U	0.793	U	-		0.793	U	0.793	U	-		1.52	U				
Tertiary butyl Alcohol		ug/m3		5.21		4.73	U	1.52	U	5.73		15.2	U	1.52	U	7.82		4.67	U	-		1.52	U	-		1.52	U	-		1.52	U	-		1.52	U	-		1.52	U	-		1.52	U	-		1.52	U	-		1.52	U				
Methylene chloride		60	ug/m3		1.74	U	5.42	U	1.74	U	1.74	U	17.4	U	1.74	U	5.11	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U			
3-Chloropropene		ug/m3		0.626	U	1.96	U	0.626	U	0.626	U	6.26	U	0.626	U	1.84	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U		
Carbon disulfide		ug/m3		0.623	U	1.95	U	0.623	U	0.623	U	6.23	U	0.623	U	1.83	U	0.99		0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U		
Freon-113		ug/m3		1.53	U	4.79	U	1.53	U	1.53	U	15.3	U	1.53	U	4.51	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U				
trans-1,2-Dichloroethene		ug/m3		0.793	U	2.48	U	0.793	U	0.793	U	8.21	U	0.793	U	2.33	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U		
1,1-Dichloroethane		ug/m3		3.27		2.53	U	0.809	U	0.809	U	8.09	U	0.809	U	2.38	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U		
Methyl tert butyl ether		ug/m3		0.721	U	2.25	U	0.721	U	0.721	U	7.21	U	0.721	U	2.12	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U		
2-Butanone		ug/m3		8.23		4.6	U	1.47	U	1.8		14.7	U	1.47	U	4.34	U	5.9		1.47	U	3.66		1.54		1.47	U	2.12		2		1.47	U	2.23		3.51		1.7		2.91		1.89		2.35		1.53		2.47		4.1		5.13			
trans-1,2-Dichloroethene		ug/m3		0.793	U	2.48	U	-		0.793	U	7.93	U	-		2.33	U	0.793	U	-		0.793	U	-		-		-		-		-		-		-		0.793	U	0.793	U	-		0.793	U	0.793	U	-		1.52	U				
Ethyl Acetate		ug/m3		1.8	U	5.62	U	1.8	U	1.8	U	18	U	1.8	U	5.3	U	1.8	U	-		1.8	U	-		1.8	U	-		1.8	U	-		1.8	U	-		1.8	U	-		1.8	U	-		1.8	U	-		1.8	U	-			
Chloroform		ug/m3		1.9	U	3.05	U	0.977	U	0.977	U	9.77	U	0.977	U	10.6	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977											

Table 3
SVI Indoor Air Guidance Values Summary Table
100 South 4th Street, Brooklyn, NY

LOCATION			IA-1		IA-2		IA-3		IA-4A		IA-4B		IA-4C		IA-4D		IA-4E		IA-4F		IA-4G		IA-4H		IA-5	
SAMPLING DATE			3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021		3/12/2021	
LAB SAMPLE ID			L2112425-12		L2112425-13		L2112425-14		L2112425-15		L2112425-16		L2112425-17		L2112425-18		L2112425-19		L2112425-20		L2112425-21		L2112425-22		L2112425-23	
SAMPLE TYPE			AIR		AIR		AIR		AIR		AIR		AIR		AIR		AIR		AIR		AIR		AIR		AIR	
	IA Guidance	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Methylene chloride	60	ug/m3	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U
Trichloroethene	2	ug/m3	0.435		0.408		2.14		0.344		0.908		1.23		0.107	U	0.107	U	0.516		0.333		0.253		0.296	
Tetrachloroethene	30	ug/m3	1.11		0.787		2.09		1.04		1.02		2.55		0.387		0.292		0.448		0.57		0.502		0.529	

Notes:

IA Guidance - Ambient Air Guidance Values, NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion (Table 3.1)

Highlighted Value Above Table 3.1 Indoor Air Guidance Values

ug/m3 - micrograms per cubic meter

U - Not detected

BOLD - Analyte detected



Table 4.1
98c South 4th Street - NYSDOH Decision Matrices Summary Table

100 South 4th Street, Brooklyn, NY

Sample ID	SV-1A	SV-1B	IA-1	NYSDOH Matrices Decision
Date	3/12/2021			
Sample Type	Sub Slab	Sub Slab	Indoor Air	
Unit	μg/m ³			
Volatile Organics in Air				
1,1,1-Trichloroethane	7.09	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	ND	0.396	NFA
cis-1,2-Dichloroethene	7.65	88	ND	NFA/MITIGATE
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	46	1,240	1.11	NFA/MITIGATE
Trichloroethene	120	1000	0.435	MITIGATE/MITIGATE
Vinyl chloride	ND	ND	ND	NFA

Notes:

$\mu\text{g}/\text{m}^3$: microgram per cubic meter

ND - not detected

NFA: No Further Actions recommended to address human exposures

IDENTIFY SOURCES, RESAMPLE, AND/OR MITIGATE: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

MONITOR: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air -conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.



Table 4.2
98b South 4th Street - NYSDOH Decision Matrices Summary Table
 100 South 4th Street, Brooklyn, NY

Sample ID	SV-2A	SV-2B	IA-2	NYSDOH Matrices
Date	3/12/2021			
Sample Type	Sub Slab	Sub Slab	Indoor Air	
Unit	$\mu\text{g}/\text{m}^3$			
Volatile Organics in Air				
1,1,1-Trichloroethane	ND	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	ND	0.421	NFA
cis-1,2-Dichloroethene	5.35	379	ND	NFA/MITIGATE
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	5.2	2710	0.787	NFA/MITIGATE
Trichloroethene	16.5	3260	0.408	MONITOR/MITIGATE
Vinyl chloride	0.537	ND	ND	NFA

$\mu\text{g}/\text{m}^3$: microgram per cubic meter

ND - not detected

NFA: No Further Actions recommended to address human exposures

IDENTIFY SOURCES, RESAMPLE, AND/OR MITIGATE: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

MONITOR: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.



Table 4.3
98a South 4th Street - NYSDOH Decision Matrices Summary Table
100 South 4th Street, Brooklyn, NY

Sample ID	SV-3A	SV-3B	IA-3	NYSDOH Matrices
Date	3/12/2021			
Sample Type	Sub Slab	Sub Slab	Indoor Air	
Unit	$\mu\text{g}/\text{m}^3$			
Volatile Organics in Air				
1,1,1-Trichloroethane	3.79	1.58	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	ND	0.403	NFA
cis-1,2-Dichloroethene	20	24.1	ND	NFA
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	460	138	2.09	NFA
Trichloroethene	967	321	2.14	MITIGATE/MITIGATE
Vinyl chloride	ND	ND	ND	NFA

$\mu\text{g}/\text{m}^3$: microgram per cubic meter

ND - not detected

NFA: No Further Actions recommended to address human exposures

IDENTIFY SOURCES, RESAMPLE, AND/OR MITIGATE: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

MONITOR: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air -conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.



Table 4.4
100 South 4th Street - NYSDOH Decision Matrices Summary Table
100 South 4th Street, Brooklyn, NY

Sample ID	SV-4	IA-4A	IA-4B	IA-4C	IA-4D	IA-4E	IA-4F	IA-4G	IA-4H	NYSDOH Matrices
Date	3/12/2021									
Sample Type	Sub Slab	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	
Unit	μg/m ³									
Volatile Organics in Air										
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
Carbon tetrachloride	ND	0.39	0.421	0.591	0.459	0.478	0.547	0.591	0.535	NFA
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA
Tetrachloroethene	4.66	1.04	1.02	2.55	0.387	0.292	0.448	0.57	0.502	NFA
Trichloroethene	21	0.344	0.908	1.23	ND	ND	0.516	0.333	0.253	NFA/MONITOR/MITIGATE
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	NFA

$\mu\text{g}/\text{m}^3$: microgram per cubic meter

ND - not detected

NFA: No Further Actions recommended to address human exposures

IDENTIFY SOURCES, RESAMPLE, AND/OR MITIGATE: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

MONITOR: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air -conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.



Table 4.5
104 South 4th Street - NYSDOH Decision Matrices Summary Table
100 South 4th Street, Brooklyn, NY

Sample ID	SV-5A	SV-5B	IA-5	NYSDOH Matrices
Date	3/12/2021			
Sample Type	Sub Slab	Sub Slab	Indoor Air	
Unit	$\mu\text{g}/\text{m}^3$			
Volatile Organics in Air				
1,1,1-Trichloroethane	ND	ND	ND	NFA
1,1-Dichloroethene	ND	ND	ND	NFA
Carbon tetrachloride	ND	2.68	0.585	NFA/IDENTIFY SOURCES and RESAMPLE or MITIGATE
cis-1,2-Dichloroethene	ND	ND	ND	NFA
Methylene chloride	ND	ND	ND	NFA
Tetrachloroethene	9.56	59.8	1.04	NFA
Trichloroethene	7.9	5.7	0.296	NFA/MONITOR
Vinyl chloride	ND	ND	ND	NFA

$\mu\text{g}/\text{m}^3$: microgram per cubic meter

ND - not detected

NFA: No Further Actions recommended to address human exposures

IDENTIFY SOURCES, RESAMPLE, AND/OR MITIGATE: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

MONITOR: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air -conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.



Table 4.6
Outdoor Air Analysis Summary Table
 100 South 4th Street, Brooklyn, NY

Sample ID	OA-1	NYSDOH Matrices
Date	3/12/2021	
Sample Type	OUTDOOR AIR	
Unit	$\mu\text{g}/\text{m}^3$	
Volatile Organics in Air		
1,1,1-Trichloroethane	ND	NA
1,1-Dichloroethene	ND	NA
Carbon tetrachloride	0.491	NA
cis-1,2-Dichloroethene	ND	NA
Methylene chloride	ND	NA
Tetrachloroethene	0.325	NA
Trichloroethene	ND	NA
Vinyl chloride	ND	NA

$\mu\text{g}/\text{m}^3$: microgram per cubic meter

NFA: No Further Actions warranted to address human exposures



APPENDICES

98, 100, and 104 South 4th Street, Brooklyn,
NY

NYSDEC BCP #C224260



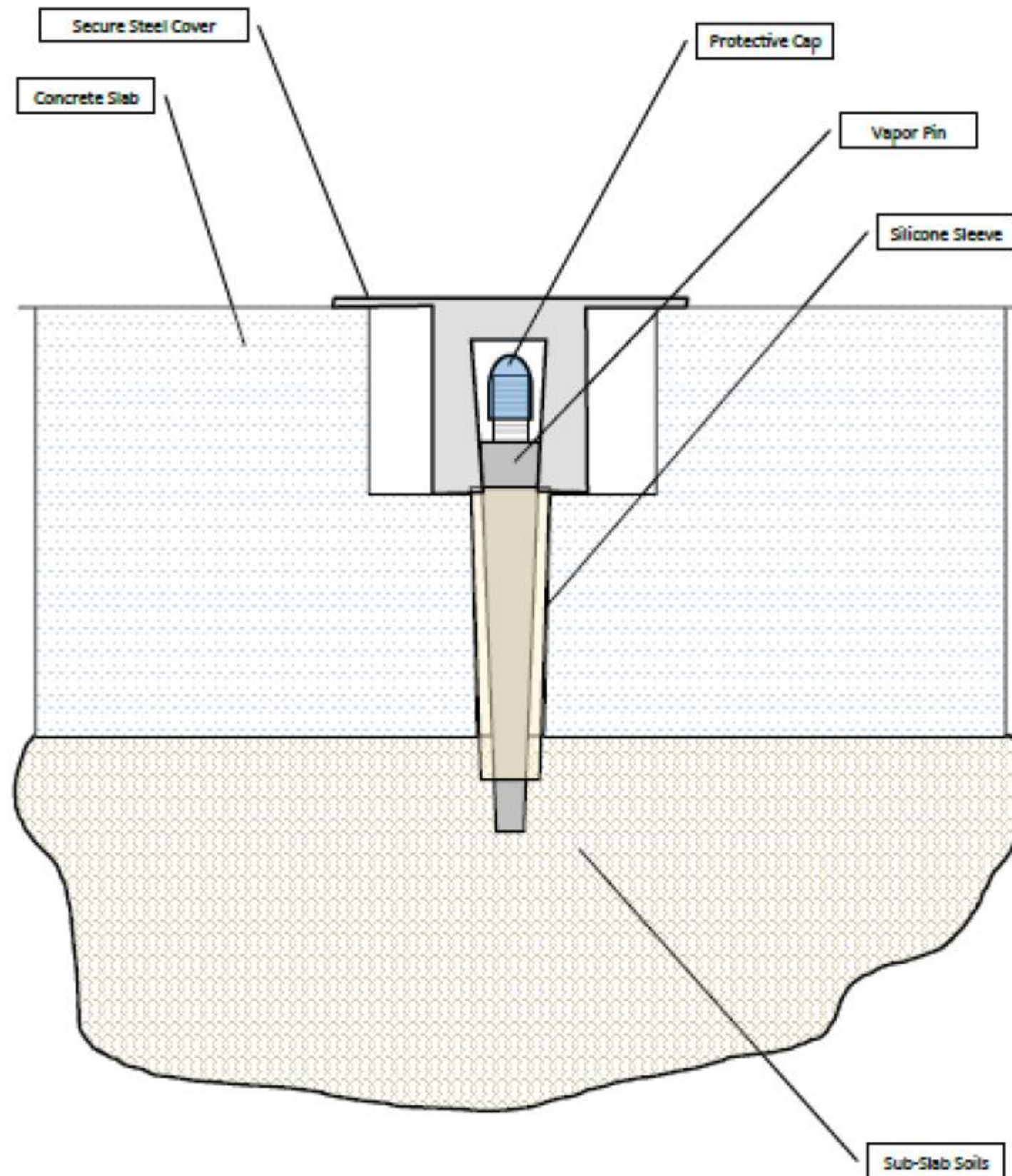
IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599

Appendix A

Soil Vapor Point Construction Detail



IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599



Sub-Slab Vapor Pin Installation

Legend

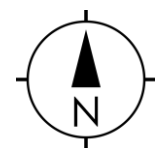
Notes:

Soil Vapor Point Construction Detail

100 South 4th
Street, Brooklyn,
NY

Appendix A

PROJECT #	13817
DRAWN BY	CJC
CHECKED BY	KK
DATE	5/21/21



Not to scale

Revisions

IMPACT ENVIRONMENTAL CLOSURES, INC.

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800
FAX (631) 269-1599



Appendix B

Photo Log



IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599



Photograph No. 1: View of typical sub-slab soil vapor monitoring point installation and duplicate sample location





Photograph No. 2: View of typical indoor air sampling location and duplicate indoor air sampling location.





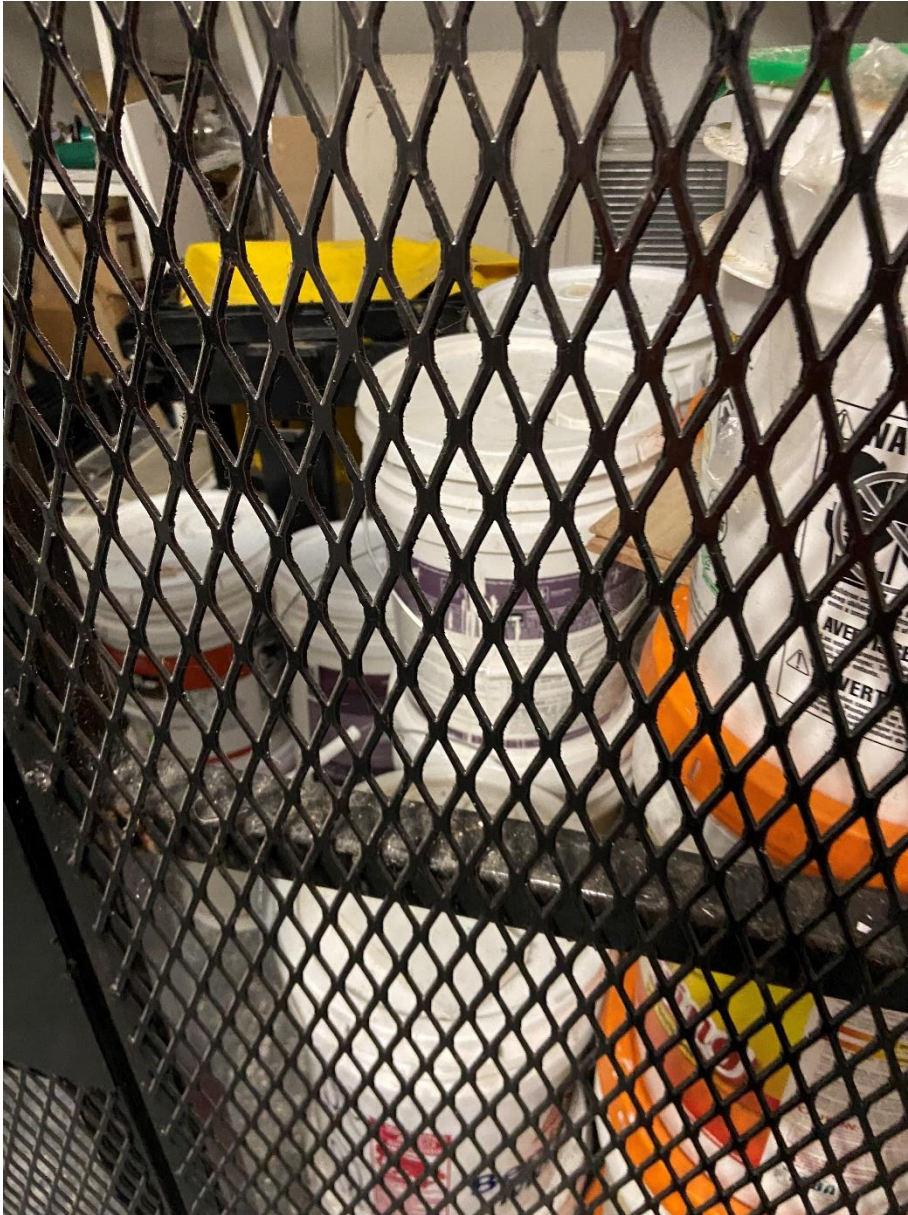
Photograph No. 3: View of typical conversion of temporary to permanent soil vapor point.





Photograph No. 4: View of typical building maintenance chemical storage within ground floor nonresidential unit in 100 South 4th Street.





Photograph No. 5: View of typical building maintenance chemical storage in stairwell storage cage in 100 South 4th Street.





**Photograph No. 6: View of typical chemical storage within
98c South 4th Street**



**Photograph No. 7: View of typical chemical storage within
98c South 4th Street**





**Photograph No. 8: View of typical chemical storage within
98c South 4th Street**

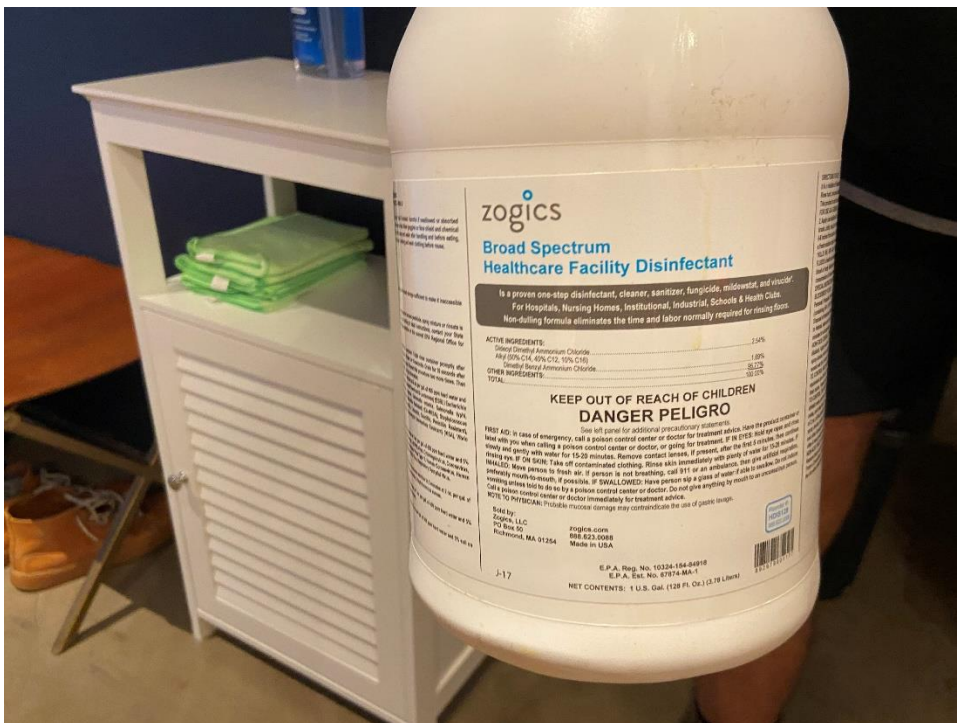


**Photograph No. 9: View of typical chemical storage within
98c South 4th Street**





**Photograph No. 10: View of typical chemical storage within
98c South 4th Street**



**Photograph No. 11: View of typical chemical storage within
98b South 4th Street**



IMPACT ENVIRONMENTAL | 170 Keyland Court | Bohemia | New York | 07071 | 631.269.8800

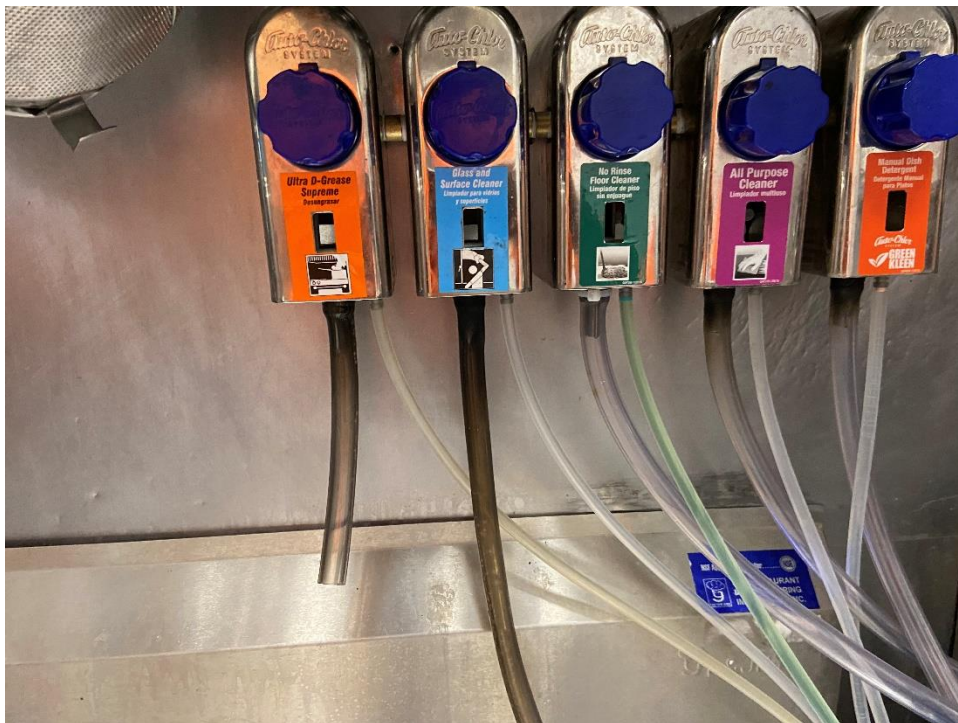


**Photograph No. 12: View of typical chemical storage within
98b South 4th Street**



**Photograph No. 13: View of typical chemical storage within
104 South 4th Street**





**Photograph No. 14: View of typical chemical storage within
104 South 4th Street**



**Photograph No. 15: View of typical chemical storage within
104 South 4th Street**



Appendix C

Data Validator Credentials



IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599



LDC Corporate Resources

LDC personnel have experience and formal training in the areas of data validation, electronic data deliverables and laboratory QA/QC. LDC personnel have performed data validation in all analytical disciplines. These include, but are not limited to, GC/MS volatiles, GC volatiles, GC/MS semivolatiles, GC pesticides, ICP metals, ICP/MS metals, GFAA metals, GC petroleum hydrocarbons, GC/MS dioxins, explosives, radiochemistry, and wet chemistry. This versatility allows our organization to adapt to workload changes and allows for an excellent secondary review system. Our organization is structured to allow direct communication between project managers, data validators, and clerical staff which occurs on a daily basis.

With LDC's 25+ years as a national leader in the data validation industry and extensive experience supporting projects with multiple EPA regions, DoD and DOE facilities, LDC is confident our data validation services will successfully meet all project requirements. The validation group is managed by Ms. Stella Cuenco, principal chemist, who has over 25 years of experience, the software products and services group is managed by Mr. Scott Denzer, who has over 35 years of experience, and the overall operations are directed by Mr. Michael Takaki, president.

The validation group is divided into chemists by discipline, organics (GC/MS, GC and HPLC) and inorganics (wet chemistry, IC, ICP, ICP/MS). All chemists report to senior group leads. A separate group performs data package log-in to the LDC tracking system. Another group performs the EDD population and verification. Shauna McKellar, Chemist and Project Manager, leads this group and has over 6 years of experience in EDD population, preparation, and uploading to various databases.

The majority of the data validation staff at LDC have been employed for over 10 years with some senior staff over 15 years as noted in the attached resumes. This level of stability and experience will ensure project stability and consistency.

In addressing LDC's financial status, LDC has an excellent Dun & Bradstreet report and has been profitable for the past 15 years. LDC has grown at approximately 10% in each of the past 5 years and continues to be a leader in our environmental sector of the data quality business. References are available from our vendors and clients to confirm our business success. Our annual revenue of approximately \$6,000,000 per year in data validation work makes LDC one of the largest independent data validation firms in the nation. In 2001, Mr. Richard Amano was the San Diego SBA Small Businessman of the Year through our sponsor Earth Tech.

LDC will commit the resources and materials to successfully complete this project with the required time period and with a high level of quality.



Project Team Summary

LDC personnel have hands-on experience in the areas of data validation, laboratory QA/QC, CLP SOWs, and environmental laboratory analyses. As documented in the resumes of our staff, the project team has significant experience with USACE and DoD protocols, current technology, SW-846, and all methods stated in the SOW.

LDC is presenting the following staff to perform key roles for this contract. The key staff of the project team and their experience are as follows:

- **Stella Cuenco, Principal Chemist/Operations Manager**
Project Role: Principal Chemist/Program Manager
Data Validation Experience: 22 years
Overall Laboratory and Data Validation Experience: 27 years
B.S. Chemistry, University of the Philippines, 1991

Ms. Cuenco has over 27 years of environmental laboratory and data validation experience under DoD and EPA guidelines. Her experience includes performance of data validation in gas chromatography/mass spectrometry for volatile and semivolatile organics and extensive Navy and EPA data review and data verification for all organic and inorganic analyses. Her laboratory experience includes hands-on CLP and SW-846 GC/MS methods.

- **Pei Geng, Senior Chemist/Project Manager**
Project Role: Senior Organic Data Validator
Data Validation Experience: 21 years
Overall Laboratory and Data Validation Experience: 28 years
M.S. Chemistry, Sam Houston University, 1989

Ms. Geng will perform the role of organic data validator for this project. She will perform data validation for GC/MS and gas chromatography analyses and serve as a peer reviewer in the initial validation review process.

Ms. Geng has over 28 years of environmental laboratory and data validation experience. Her experience includes performance of data validation in the gas chromatography area for volatile and semivolatile organics and extensive DoD data review and data verification for all organic analyses. Her laboratory experience includes hands-on CLP and SW-846 GC/MS methods.

- **Richard M. Amano, Principal Chemist**
Project Role: Senior Technical Reviewer/Director
Data Validation Experience: 26 years
Overall Laboratory and Data Validation Experience: 38 years
B.S. Biochemistry, UCLA, 1979

Mr. Amano has over 38 years of environmental laboratory, QA/QC, and data validation experience. He has managed data validation projects using the DoD QSM data validation guidelines for the past twenty years. Prior to founding LDC in 1991, he directed two major laboratories, Analytical Technologies, Inc. and Brown and Caldwell, from 1983 to 1991. His data validation experience includes oversight and direction of major efforts for Superfund sites, DoE sites, Navy RI/FS projects, Army Corps of



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

Engineers investigations, and AFCEE/AFCEC projects. He also has overseen several laboratory audits for major analytical testing programs for the Navy, Texaco, and Hewlett-Packard. His laboratory experience includes hands-on CLP and SW-846 GC/MS analysis, direction of GC/MS (including TO-14 air analyses) and radiochemistry groups, dioxins method development, and complex GC data interpretation of Aroclors. He has performed expert witness support for litigation purposes.

- **Erlinda T. Rauto, Principal Chemist**
Project Role: Technical Reviewer
Data Validation Experience: 25 years
Overall Laboratory and Data Validation Experience: 38 years
B.S Chemical Engineering, Feati University, Manila, 1967

Ms. Rauto will perform the role of Technical Reviewer for this project. She will monitor schedules, compliance of the validation to the applicable documents, perform routine surveillance activities such as generation of nonconformance reports, validator training, and QA reports to management.

Ms. Rauto has over 38 years of environmental laboratory and data validation experience. She has worked under the DoD QSM data validation guidelines for the past 10 years. Her experience includes performance of data validation in the GC, trace metals, and wet chemistry areas for major Federal projects. Her laboratory experience includes hands-on CLP and SW-846 ICP/GFAA analysis, pesticide/PCBs and wet chemistry analysis.

- **Christina Rink-Ashdown, Inorganic Chemist**
Project Role: Inorganic Data Validator/Project Manager
Data Validation Experience: 9 years
Overall Laboratory and Data Validation Experience: 11 years
B.S. Biology, University of California, San Diego 2006

Ms. Rink-Ashdown will perform the role of day to day Project Manager for this project. She will monitor schedules, compliance of validation to the Required Guidelines, perform routine surveillance activities such as generation of non-conformance reports, validator training and QA reports to management.

Ms. Rink-Ashdown has over 11 years combined environmental laboratory and data validation experience. Her experience includes performance of data validation in the trace metals, radiochemistry, and wet chemistry areas for major Federal and commercial projects. Her laboratory experience includes hands-on CLP and SW-846 ICP/CVAA analysis and overall technical review of data deliverables.

Ms. Rink-Ashdown specializes in the data validation of radiochemistry, trace metals, wet chemistry, and methyl mercury and analyses under MARLAP and USEPA functional guidelines or equivalent protocol. Over the past two years, she has worked under various DoD, CERCLA and EPA data validation guidelines for the various CERCLA, Navy, Army Corps, AFCEE/AFCEC and commercial projects. She is also certified as a "Radiometric Data Validation Specialist" through course work and testing by the Radiochemistry Society.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

- **Shauna McKellar, Chemist / Project Manager**

Project Role: Chemist

Data Validation Experience: 8 years

Overall Laboratory and Data Validation Experience: 14 years

B.S. Environmental Toxicology, UC Davis, 2006

Ms. McKellar has over 14 years of environmental consulting and data validation experience. She has worked under EPA data validation guidelines for the past 6 years and has inorganic and organic data validation experience using USEPA functional guidelines, Navy procedures, project QAPPs, ADEC checklists, and other applicable documents for EPA, DoD and commercial projects.

Ms. McKellar specializes in the data validation and contract compliance screening using LDC's Automated Data Review (ADR) software, and is familiar with a variety of different Electronic Data Deliverable formats, including SEDD and NEDD. She has supervised large data validation projects under the USACE and Navy Southwest Division RAC contracts

- **Linda Ta, Chemist / Project Manager**

Project Role: Chemist

Data Validation Experience: 1 year

Overall Laboratory and Data Validation Experience: 5 years

B.S. Geology, CSU Long Beach, 2012

Although Ms. Ta has less than one year of experience at LDC, she is proficient in data validation for GC and GCMS methods for Level II and III.

Ms. Ta has so far become responsible for writing project data quality assessment reports (DQAR), has learned to use ADR for validation, and is in training to perform ERPIMS database tasks.

- **Tony Rommelfanger, Data Control Manager**

Project Role: Data Custodian

Mr. Rommelfanger will perform the role of data custodian for this project. He will perform the log-in of all data packages into the LDC tracking system. This system will generate spreadsheets for identifying all samples, their collection date, analysis performed, matrix, and report due date. Upon the completion of each delivery order, he will archive and catalog all reports and data in a secured storage area.

Mr. Rommelfanger has over 26 years of experience in laboratory and data management experience. He has experience in organizing, logging in, and tracking data packages for technical staff.



Resumes of Key Staff

- Stella Cuenco, Senior Chemist
- Pei Geng, Senior Chemist
- Richard Amano, Principal Chemist
- Linda Rauto, Principal Chemist
- Christina Rink-Ashdown, Inorganic Chemist
- Shauna McKellar, Chemist/EDD Specialist
- Linda Ta, Chemist



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

RESUME STELLA S. CUENCO

EDUCATION

B.S. Chemistry, 1991
University of the Philippines (UP)

PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.
Senior Chemist
1996 to present

Ceimic Corporation
GC/MS Chemist
1996

Analytical Technologies, Inc.
GC/MS VOA Group Leader
1992 to 1996

Analytical Technologies, Inc.
GC/MS Chemist
1991 to 1992

Natural Products Research, UP
Research Assistant
1990 to 1991

REPRESENTATIVE EXPERIENCE

Ms. Cuenco has over 27 years combined environmental laboratory and data validation experience. Her experience includes performance of data validation in the GC and GC/MS areas for major Federal projects. She has performed large validation projects under Boeing, Navy Southwest, Northwest and Pacific Division, EPA Region IX ESAT, USACE and AFCEE/AFCEC programs. Her laboratory experience includes hands-on CLP and EPA analysis of GC and GC/MS volatile organic compounds.

Specifically, Ms. Cuenco has over 22 years organic data validation experience using USEPA (including Region III) functional guidelines and other applicable documents.

- As senior chemist with LDC, Ms. Cuenco specializes in the data validation and contract compliance screening of gas chromatography-mass spectrometry analyses as well as gas chromatography analyses. She has a thorough knowledge and understanding of gas chromatography and gas chromatography-mass spectrometry (GCMS) and high resolution GCMS methods referenced in EPA CLP, SW-846, EPA 500, 600 and 1600 series documents. She has performed large data validation under Boeing, Navy Southwest and Pacific Divisions and EPA Region IX ESAT, USACE and AFCEE/AFCEC projects.



Ms. Cuenco has over 5 years experience in an environmental laboratory performing the analysis of organic parameters.

- As GC/MS chemist at Ceimic Corporation, a full service environmental analytical chemistry facility, Ms. Cuenco performed GC and GC/MS volatile analyses. She was responsible for the final reporting of analytical data for this section.
- As GC/MS VOA Group Leader at Analytical Technologies Inc., a full service environmental analytical chemistry facility, Ms. Cuenco was responsible for all GC/MS functions which included overseeing daily operations, training staff, final reporting of analytical data, and compliance with method requirements.
- As research assistant at Natural Products Research, UP, Ms. Cuenco researched chemical literature for plants with known medicinal properties as well as performed microbiological and pharmacological tests on plant extracts.



RESUME
PEI GENG

EDUCATION

M.S. Organic Chemistry, 1989
Sam Houston State University

B.S. Environmental Chemistry, 1983
Nankai University

PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.
Senior Chemist
1997 to present

Ceimic Corporation
GC/MS and GC Chemist
1996 to 1997

PACE Analytical Service Inc.
GC/MS and GC Chemist
1990 to 1996

REPRESENTATIVE EXPERIENCE

Ms. Geng has over 28 years combined environmental laboratory and data validation experience. Her experience includes performance of data validation in the GC and GC/MS areas for major Federal projects. She has performed large validation projects under Boeing, Navy Southwest, Northwest and Pacific Division, EPA Region IX ESAT, USACE and AFCEE/AFCEC programs. Her laboratory experience includes hands-on CLP and EPA analysis of GC and GC/MS volatile organic compounds.

Specifically, Ms. Geng has over 21 years organic data validation experience using USEPA CLP (including Region III) functional guidelines and other applicable documents.

- As chemist with LDC, Ms. Geng specializes in the data validation and contract compliance screening of gas chromatography-mass spectrometry analyses as well as gas chromatography analyses. She has a thorough knowledge and understanding of gas chromatography and gas chromatography-mass spectrometry (GCMS) and high resolution GCMS methods referenced in EPA CLP, SW-846, EPA 500, 600 and 1600 series documents. She has performed large data validation under Boeing, Navy Southwest and Pacific Divisions and EPA Region IX ESAT, USACE and AFCEE/AFCEC projects.



Ms. Geng has over 7 years of experience in an environmental laboratory performing the analysis of organic parameters.

- As both a GC and GC/MS chemist at Ceimic Corporation, a full service environmental analytical chemistry facility, Ms. Geng performed GC and GC/MS volatile and semivolatile analyses.
- As both a GC and GC/MS chemist at PACE Analytical Service Inc., a full service environmental analytical chemistry facility, Ms. Geng performed GC and GC/MS volatile and semivolatile analyses as well as overseeing the final reporting of analytical data, and compliance with method requirements.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

RESUME RICHARD M. AMANO

EDUCATION

B.S. Biochemistry
University of California, Los Angeles, 1979

A.A. Chemistry
El Camino College, 1977

PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.
Program Manager/Principal Scientist
2011-present
President/Principal Chemist,
1991 to 2011

Analytical Technologies, Inc
Laboratory Director
1986 to 1991

Brown & Caldwell
Laboratory Supervisor
1983 to 1986

West Coast Technical Service
Senior Chemist
1980 to 1983

University of California, Los Angeles
Laboratory Technician
1979 to 1980

REPRESENTATIVE EXPERIENCE

Mr. Amano has over 38 years of combined environmental laboratory, QA/QC, laboratory auditing, data management, environmental software development, and data validation experience. Prior to founding LDC in 1991, he directed to two major laboratories, Analytical Technologies, Inc. (San Diego) and Brown and Caldwell. His experience includes oversight and direction of major QA/QC and data validation efforts for confidential petroleum spill projects, Boeing sites, Superfund sites, DoE sites, Navy RI/FS projects, Army Corps of Engineers investigations, and AFCEE/AFCEC projects. He has also overseen several laboratory audits for major analytical testing programs and large scale environmental software development for the US Army Corps of Engineers (USACE).

Specifically, Mr. Amano has over 26 years of experience with validation of organic, inorganic, and radiochemical analyses using USEPA, Navy, USACE, DoD, AFCEE/AFCEC, and other applicable guidance documents.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

- As program manager/principal scientist with LDC, Mr. Amano provides management and technical support to the data validation, data quality, and software group. He oversees and directs all environmental software projects developed for the USACE. Additionally, he acts as the primary LDC/USACE contract manager for software development projects. He is the primary author of the nationally distributed Automated Data Review (ADR) software used by the USACE, Navy, DTSC, and commercial clients.
- As President/principal chemist with LDC, Mr. Amano provided management and technical support to the data validation, data quality, and software group. He provided technical support in the organic, inorganic, and radiochemical areas. Under several major QA/QC and data validation programs, he provided, as needed, a final review of data validation and assessment reports. Mr. Amano specializes in the evaluation, validation, and interpretation of environmental testing data. Additional responsibilities include laboratory QA/QC and NELAC audits, implementation and support of QA/QC programs and data management support for engineering firms, environmental lab training, consultation on LIMS data base designs for environmental laboratories, and expert witness litigation support. Mr. Amano has managed and directed several major data validation and QA/QC projects for Army Corps, Navy, Air Force, and commercial contracts. Industrial projects include major petroleum oil spill related data validation and assessment of hydrocarbon analyses. The DoD projects include Southwest Division CLEAN 1 (Jacobs Engineering/IT Corporation/CH2M Hill), Southwest Division CLEAN 2 (Bechtel National), Pacific Northwest Division CLEAN (URS Greiner), Southern Division CLEAN (ABB Environmental), Atlantic Division CLEAN (EA Engineering), Southwest Division RAC (OHM Remediation), Pacific Division CLEAN (Earth Tech), AFCEE/AFCEC Mather AFB (Montgomery Watson), AFCEE/AFCEC Pease AFB (Bechtel Environmental), AFCEE/AFCEC England AFB (Law Environmental), Army Corps Travis AFB (CH2M Hill), Army Corps Hawthorne Army Depot (Tetra Tech), Nevada Test Site (IT Corp), and Army Corps Fort Ord (Harding Lawson). He provided oversight and direction for major USACE environmental software development including Automated Data Review (ADR), FUDSFORUM, MRSP, and FUDSCHEM. He has a thorough knowledge and understanding of EPA CLP, SW-846, EPA 500, EPA 900, and EPA 600 series methods. He additionally has supported attorneys as an expert witness and has taught data integrity and lab ethics courses for several organizations.

Mr. Amano has over 12 years environmental laboratory experience in commercial laboratories supervising or performing the analyses of organic, inorganic, and radiochemical parameters.

- As laboratory director and technical director of Analytical Technologies, Inc, a full service environmental analytical chemistry facility, Mr. Amano was responsible for all facets of operations. These responsibilities include direct technical input for GC, GC/MS, and inorganic operations, personnel selection, assisting in method development, and selection of non-routine analysis. In addition, Mr. Amano was responsible for supervision of the 80 scientists employed at ATI's San Diego laboratory with all group supervisors, quality assurance and safety coordinators reporting directly to him. Mr. Amano has managed numerous analytical testing programs including the North Island Navy Confirmation Study, Miramar Air Force Base Confirmation Study, and investigations at several of the EPA Superfund sites. His environmental expertise focuses on the chemical testing related to hazardous waste investigations, site remediation, and groundwater monitoring programs.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

- While at Brown & Caldwell, Mr. Amano's responsibilities encompassed supervision of daily operations of the laboratory, personnel staffing, technical advisor for operation of the gas chromatograph/mass spectrometer (GC/MS) section, maintenance of QA/QC programs, and coordination between engineers, clients, and laboratory analysts. Additionally, he supervised the daily operation of all radiochemistry activities which included alpha, beta, and radium analyses.
- At West Coast Technical Service, Mr. Amano was responsible for daily operation and quality control of the GC/MS group. Mr. Amano was highly involved with the USEPA hazardous waste contracts. Some special projects included dioxin selected ion monitoring analysis, EPA method 624 and 625 validation studies, and low level drinking water evaluations.

TECHNICAL PRESENTATIONS

"Understanding the Workings of an Environmental Laboratory"

Southern California Department of Health Services, 1984

Hargis & Associates, Inc, La Jolla, CA, 1987

Hargis & Associates, Inc, Tucson, AZ, 1987

Westec Services, San Diego, CA, 1987

Applied Hydrogeologic, Inc, San Diego, CA 1989

"Data Validation, QA/QC, and Environmental Analysis"

Van, Waters, and Rogers, Seattle, WA, 1990

ERC Environmental, Honolulu, HI, 1991

Harding Lawson Associates, Honolulu, HI, 1991

Pacific Division Naval Engineering Group, Honolulu, HI, 1991

OHM, Irvine, CA, 1996

Southwest Division Naval Engineering Group, San Diego, CA, 1996

Navy Public Works Center, San Diego, CA 1996

"GC versus GC/MS"

J.H. Kleinfelder & Associates, Artesia, CA 1986

Hargis & Associates, Inc, La Jolla, CA 1987

"Analytical Methods and QA/QC Procedures for Environmental Analysis"

County of San Diego Department of Health Services, San Diego, CA 1989

Regional Water Quality Control Board, San Diego, CA 1990

ERC Environmental, San Diego, CA 1990

Mittlehauser Corporation, Laguna Hills, CA 1991

"Hydrocarbon Testing Related to Underground Storage Tanks (UST)"

San Diego County DOHS, San Diego, CA, 1986

J.H. Kleinfelder & Associates, Artesia, CA 1986

Woodward Clyde Consultants, San Diego, CA 1987

Engineering Enterprises, Long Beach, CA 1987

"Quality Control/Quality Assurance in Laboratories"

Assoc of Hazardous Materials Professionals, Anaheim, CA 1986

R.L. Stollar & Associates, Santa Ana, CA 1989



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

- "The Influence of Sample Matrix on Environmental Analysis"
Assoc of Hazardous Materials Professionals, San Diego, CA 1990
- "Comparison of Air Sampling Media"
Assoc of Hazardous Materials Professionals, Anaheim, CA 1991
- "Building a Second Generation LIMS for Commercial Laboratory Operations"
Pittsburgh Conference, New York, NY, 1990 (Invited Speaker)
- "Employment Outlook in Environmental Laboratories"
Southern California American Chemical Society, 1985
- "Opportunities in the Environmental Lab in the 1990's"
American Chemical Society, 1990
- "Data Validation of Radiochemical Analyses"
Hargis + Associates, La Jolla, CA 1991
- "Detection Limits - MDL, PQL, RDL, LOD ?"
Analytical Technologies, Inc., 1991
- "Poor QA/QC or Laboratory Fraud: Have labs crossed the fine line?"
Environmental Professionals Organization, Newport Beach, CA 1996
- "Electronic Data Deliverables and Automated Data Review/Validation"
Army Corps of Engineers, Sacramento District, Sacramento, CA 1996
- "Navy Environmental Data Transfer Standards"
Kleinfelder, San Diego, CA 1997
- "Laboratory QA/QC Update for DoD Programs"
ACTLabs, Long Beach, CA 1997

LECTURING AND TEACHING

- "Instrumental Analysis of Hazardous Materials"
University of California, San Diego 1988 - 1995
- "Field Monitoring & Laboratory Analysis of Hazardous Materials"

University of California, San Diego 1995 - 1998
- California State Fullerton, Guest Lecturer, 1985 & 1990
- San Diego State University, Hydrology Department, Guest Lecturer, 1988
- "EPA Level 4 Data Validation" Workshop
Applied Geotechnology, Inc., Bellevue, WA, 1993
- "Environmental Analyses in the 90's"



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

National University, Guest Lecturer, 1993

"Data Quality Objectives for Federal Environmental Programs"
University of California, San Diego 1993

"Data Integrity and Data Management for Federal Environmental Programs"
University of California, San Diego 1994

"Laboratory QA/QC and Electronic Data Requirements for DoD Programs"
University of California, San Diego 1995

"Application and Utilization of Department of Defense (DoD) Guidance Documents"
University of California, San Diego 1996

"Laboratory Quality Assurance for Department of Defense Programs"
University of California, San Diego 1997

PUBLICATIONS

"Managing an Environmental Chemistry Laboratory for Profit",
John H. Taylor, Jr and Richard M. Amano,
Journal of Chromatographic Science, 1987

MEMBERSHIPS AND AFFILIATIONS

American Chemical Society
Association of Hazardous Materials Professionals, (Steering Committee 1988-1994)
Association of California Testing Laboratories, (Board Member 1989-1991)
County of San Diego, Site Assessment and Mitigation Technical Forum (Steering Committee 1990-2000)
American Society Quality Control (1992-2005)

FOUNDATIONS

Golf for Autistic Children in America (GACA), Founder/President (2011)



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

RESUME ERLINDA T. RAUTO

EDUCATION

B.S. Chemical Engineering 1967
Feati University - Manila, Philippines

PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.
Senior Chemist/Validation Group Manager
1993 to present

Appropriate Technologies, Inc.
Chemist II
1992 to 1993

AECOS Inc.
Laboratory Supervisor
1989 to 1992

PWCSA #4 County Complex
Laboratory Analyst
1986 to 1989

Kalama Specialty Chemical
Chemist
1980 to 1982

REPRESENTATIVE EXPERIENCE

Ms. Rauto has over 38 years combined environmental laboratory, QA/QC, and data validation experience. Her experience includes performance of data validation in the GC, trace metals, and wet chemistry areas for major Federal projects. Her laboratory experience includes hands-on CLP and EPA ICP/GFAA analysis, pesticide/PCBs and wet chemistry analysis.

Specifically, Ms. Rauto has over 25 years of experience with organic data validation and assessment using USEPA (including Region III) functional guidelines and other applicable documents.

- As a Principal chemist with LDC, Ms. Rauto provides management and technical support to the data validation group. She specializes in the data validation and compliance screening of gas chromatography organic analyses. This validation includes EPA CLP, SW-846, and EPA Water and Wastewater methods. Over the past 16 years, Ms. Rauto has performed USEPA Level 3 and Level 4 (including NFESC Level C and D) validation for projects including Boeing SSFL, Southwest Division CLEAN 1 (Jacobs Engineering/IT Corporation/CH2M Hill), Southwest Division CLEAN 2 (Bechtel National), Pacific Northwest Division CLEAN (URS Greiner), Southern Division CLEAN (ABB Environmental), Atlantic Division CLEAN (EA Engineering), Southwest Division RAC (OHM Remediation), Pacific Division CLEAN (Earth Tech), DoE Atomic City (Jacobs



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

Engineering Group), Army Corps of Engineers, Travis AFB (CH2M Hill), Army Corps of Engineers, Camp Navajo (Tetra Tech), AFCEE/AFCEC Mather AFB (Montgomery Watson), AFCEE/AFCEC Pease AFB (Bechtel Environmental), AFCEE/AFCEC England AFB (Law Environmental), Army Corps of Engineers, Hawthorne Army Depot (Tetra Tech), Army Corps of Engineers, Fort Ord (Harding Lawson), Nevada Test Site (IT Corp), and AFCEE/AFCEC Beale AFB (Law/Crandall, Inc.).

Ms. Rauto has organic laboratory experience with over 13 years of experience in an environmental laboratory supervising or performing the analyses of organic parameters.

- As a chemist II at Appropriate Technologies, Inc., a hazardous waste disposal facility, Ms. Rauto was responsible for the operation of the gas chromatographs. Organochlorine pesticides and PCBs analysis was the primary method performed. In addition, Ms. Rauto performed ICP analyses for trace metals, as well as, supported engineers in developing waste treatment processes.
- As the laboratory supervisor at AECOS Inc., Ms. Rauto supervised and directed operation of gas chromatography, atomic absorption, and wet chemistry instrumentation. She interfaced with state and federal agencies to maintain certification and developed a written QA/QC plan for the laboratory.
- As chemist at Kalama Specialty Chemical, Ms. Rauto performed gas chromatography analysis on raw materials and finished products. She worked on the research and development of new chemicals.

Additionally, Ms. Rauto has 2 years inorganic/conventional analytical experience.

- While employed at the Prince William County laboratory, Ms. Rauto was involved in the analysis of water and wastewater for metals and wet chemistry parameters. This included BOD, COD, nitrate, nitrite, sulfate, chloride, fluoride, TDS, conductivity, pH, cyanide, and phenols analyses. She maintained the QA/QC program to assure compliance with EPA guidelines.

AFFILIATIONS

American Society for Quality Control



RESUME
CHRISTINA RINK-ASHDOWN

EDUCATION

BS Biology, 2006
University of California, San Diego

PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.
Inorganic Chemist
2009 to present

Enviromatrix Analytical, Inc.
Metals Chemist
2007 to 2009

REPRESENTATIVE EXPERIENCE

Ms. Rink-Ashdown has over 11 years combined environmental laboratory and data validation experience. Her experience includes performance of data validation in the trace metals, radiochemistry, and wet chemistry areas for major Federal and commercial projects. Her laboratory experience includes hands-on CLP and SW-846 ICP/CVAA analysis and overall technical review of data deliverables. Specifically, Ms. Rink-Ashdown has over 6 years inorganic and radiochemistry data validation experience using USEPA (including Region III) functional guidelines and other applicable documents.

As chemist with LDC, Ms. Rink-Ashdown specializes in the data validation of trace metals, wet chemistry, methyl mercury and radiochemistry analyses using USEPA functional guidelines or equivalent protocol. She has worked under various CERCLA and EPA data validation guidelines for the various CERCLA, Navy, Army Corps, AFCEE/AFCEC and commercial projects. She is certified as a "Radiometric Data Validation Specialist" through course work and testing by the Radiochemistry Society. **Ms. Rink-Ashdown has validated over 2,000 samples for various isotopes in the last two years.**

Ms. Rink-Ashdown has over 2 years of environmental laboratory experience in a laboratory performing the analyses of inorganic parameters.

As lead inorganic chemist at Enviromatrix Analytical, Inc., Ms. Rink-Ashdown managed the inorganic chemistry section which performed techniques such as atomic absorption and inductively coupled argon plasma spectrometry. These analyses were performed from methods referenced in EPA CLP, SW-846, and Standard Methods documents.



RESUME
SHAUNA McKELLAR

EDUCATION

B.S. Environmental Toxicology, 2006
University of California at Davis

PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.
Project Manager / Chemist
May 2010 to present

D-Max Engineering, Inc.
Assistant Project Scientist
January 2007 to May 2010

University of California at Davis
Undergraduate Researcher
March 2005 to June 2006

REPRESENTATIVE EXPERIENCE

Ms. McKellar has over 14 years combined consulting, field sampling, database management, data validation, and automated data review experience. Her experience includes performance of automated data validation for major Navy Southwest Division, US Army Corps of Engineers, and Alaska DEC projects as well as data management for commercial and litigation projects. Her field sampling experience includes surface water sampling in both wet and dry weather conditions, and her laboratory experience includes preparation and analysis of samples utilizing HPLC and UV-vis spectrometry, instrument maintenance, and data evaluation.

Specifically, Ms. McKellar has over 6 years of inorganic and organic data validation experience using USEPA functional guidelines, Navy procedures, QAPP, ADEC checklists, and other applicable documents, in addition to more than 3 years of experience working in the environmental compliance field, and over one year working in a research laboratory.

- As chemist with LDC, Ms. McKellar specializes in the data validation and contract compliance screening using LDC's Automated Data Review (ADR) software, and is familiar with a variety of different Electronic Data Deliverable formats, including SEDD and NEDD. She has supervised large data validation projects under the USACE and Navy Southwest Division RAC contracts.
- As an assistant project scientist with D-Max Engineering, Ms. McKellar performed wet and dry weather surface water sampling related to compliance with Regional Water Quality Control Board NPDES Permits. She also maintained large project databases related to stormwater inspection and monitoring programs for various municipalities.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

- As an undergraduate researcher at the University of California at Davis, Ms. McKellar conducted an independent atmospheric chemistry research project utilizing HPLC and UV-Vis spectroscopy. She was responsible for the instrument calibration, verifying sample analyses, and routine instrument maintenance.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

RESUME LINDA TA

EDUCATION

B.S. Geology, 2012
California State University Long Beach

PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.
Chemist and Project Manager
July 2018 to present

Eurofins Calscience
Project Manager Assistant
02/2014-07/2018

Eurofins Calscience
Chemist
10/2013-02/2014

REPRESENTATIVE EXPERIENCE

Although Ms. Ta has less than one year of experience at LDC, she is proficient in data validation for GC and GCMS methods for Level II and III.

- As a project manager with LDC, Ms. Ta assists the other project managers through project set-up, validation, report review, and writing project data quality assessment reports. Ms. Ta is also in training to perform ADR validation and ERPIMS database tasks. She is also the administrative support specialist for LDC Advantage secure data sharing portal where she assists with project and client set-up.

Ms. Ta has 5 years of experience in an environmental laboratory performing the analysis of organic parameters.

- As a GC/MS chemist at Eurofins Calscience, a full service environmental analytical chemistry facility, Ms. Ta performed GC/MS volatile analyses using various EPA Methods in accordance with standard operating procedures. Ms. Ta utilized Agilent Chemstation and Laboratory Information Management Systems (LIMS) to analyze and report data.
- As a Project Manager Assistant at Eurofins Calscience, Ms. Ta assisted multiple Project Managers to oversee all laboratory functions for various projects. In addition, she managed several minor projects for various Environmental consultants. She served as the secondary point of contact for clients, ensured that Chain of Custodies are accurate and analyses are logged in correctly, directed preparation of bottle orders, scheduled pickups and deliveries, coordinated subcontracted analyses, provided quality control review of project-related documents and compliance to project criteria, worked closely with lab group supervisors and executive managers in planning new projects and managed ongoing analytical work. Ms. Ta evaluated analytical data, prepared project



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

case narratives and summaries, compiled laboratory reports for external validation, and worked closely with chemists and lab group supervisors in resolving quality assurance and quality control issues. She prepared detailed project billing and generated multiple Electronic Data Deliverables. She was also responsible for training new Project Manager Assistants on various PM tasks, data review and compilation of laboratory Level III/IV QC Data Deliverables.

Below is a partial listing of clients and projects which Ms. Ta has assisted:

- Department of Defense Sites

- Edwards AFB
- George AFB
- Vandenberg AFB

- SSFL NASA

- BP/ARCO

- Aerospace Company

Below is a listing of various database management software which Ms. Ta has extensive training on:

- ERPIMS

- EQUIS

- Envirodata

- NEDD

- ADR

- Geotracker



Relevant Project Experience

LDC has performed data validation and Quality Assurance services for contaminated sites overseen by AFCEE/AFCEC, Navy Southwest Division, DoE, DoD, EPA Superfund projects overseen by EPA Regions II, III, IV, IX, X, USACE projects reviewed by the Alaska, Baltimore, Louisville, Albuquerque, Seattle, Philadelphia, and Sacramento Districts, and Navy projects reviewed by NFESC.

LDC is the software developer and expert in the use of the Automated Data Review (ADR) software. LDC has been using the ADR.NET version for over 2 years and has the current Version in full implementation. LDC has performed over 1000 ADR projects in the past 10 years' worth over \$2,000,000 in revenue. ADR clients include, but are not limited to: Tetra Tech EC, Sealaska, AMEC, EPA, California DTSC, MWH, Trevet, Brown & Caldwell, AECOM, Shaw, ITSI, CDM, Weston Solutions and the San Gabriel Watermaster.

LDC has validated over 1,000,000 samples for analyses such as volatile organics (CLP, EPA Method 8240/8260), semivolatile organics (CLP, EPA Method 8270), organochlorine pesticides/PCBs (CLP, EPA Method 8081/8082), chlorinated herbicides (EPA Method 8151), purgeable halocarbons and aromatics (EPA Method 8021), trace metals (CLP, EPA Method 6010/6020/7000), PAHs by EPA 8310 and 8270, TOC analyses, hexavalent chromium, total petroleum hydrocarbons (EPA Method 8015/CDOHS LUFT), radiochemical constituents including gross alpha/beta, alpha spec, gamma spec, tritium, and uranium, and general minerals.

LDC has met their contractual turnaround time and quality requirements on over 99% of the projects completed.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

Project References/Experience

Name and Address, Contact Person, Telephone	Work Description and Location	Requested Deliverables	Number of samples/ Matrix	Value (\$)	Start/Stop
Washington State Department of Transportation Environmental Services Office P.O. Box 47332 Olympia, WA 98504 ATTN: Mr. Brad Archbold ArchboB@wsdot.wa.gov 360-570-6636	WSDOT NPDES Stormwater Monitoring LDC performed Stage2A, 2B and 4 data validation for a full suite of analyses including GCMS, GC, Metals, and Wet Chemistry analyses.	Stage 2A, 2B, and 4 data validation reports. Work conducted under Washington State Department of Transportation Stormwater Monitoring	>3,800 Soil and Water	\$48,332	04/2013-07/2016
Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614 ATTN: Mr. Mark Withrow mwithrow@leightongroup.com cell: 949-394-2194 office: 949-681-4211	San Onofre Nuclear Generating Station (SONGS) Mesa Facility LDC performed EPA Level III and IV equivalent data validation for a full suite of analyses. Analyses included GCMS, GC, Metals, and Wet Chemistry analyses.	EPA Level III and IV data validation reports. Work conducted under USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG).	>3,600 Soil, Water, and Air	\$66,225	09/2015-present
Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614 ATTN: Ms. Julie Harriman jharriman@leightongroup.com Direct : (949) 681-4264 Cell: (949) 572-8129	Aliso Canyon LDC performed EPA Level II equivalent data validation. Analyses included VOA, SVOA, Total Hydrocarbons, Isopropyl Alcohol, Total Dust, and Sulfur Compounds.	EPA Level II data validation reports and PARCC summary report. Work conducted under USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG).	>1,200 Air, Wipe, and Disk	\$15,749	07/2016-08/2016
Tetra Tech, EM Inc. 1999 Harrison Street, Suite 500 Oakland, CA 94612 ATTN: Ms. Sara Woolley Sara.Woolley@tetrattech.com Direct: 510.302.6311 Main: 510.302.6300	Subcontract 161408 For Various project sites including: EAGLE NEST INVESTIGATION FORT IRWIN GOLD BEACH MILL HPNS MARE ISLAND MOTCO LITIGATION NAF EL CENTRO NWS CONCORD LDC performed Cursory and Full data validation for a full suite of analyses using specified EPA Guidelines, DoD QSM Version 4.2, and Tetra Tech EMI, Inc. validation documents.	TTEMI Format data validation reports and EDD using Tetra Tech's validate program.	>3000 Soil and Water	\$39,785	10/2011 – 10/2013



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

Name and Address, Contact Person, Telephone	Work Description and Location	Requested Deliverables	Number of samples/ Matrix	Value (\$)	Start/Stop
GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033 (860) 368-5342 direct (860) 368-5300 main Jaimie Wargo JWargo@geiconsultants.com	Various NYSDEC sites LDC performed Category B equivalent data validation Analyses included: VOC, SVOC, Pesticide, PCB, Herbicide, Steroids, Metals, Wet Chemistry	Category B data validation and NYSDEC DUSR reports	>1,700 Soil and Water	\$72,000	2010-present
TetraTech EC 17885 Von Karman Ave, Suite 500 Irvine, CA 92614 Attn: Lisa Bienkowski (949) 809-5028 Lisa.Bienkowski@tetrattech.com	Tetra Tech Hunter's Point CA LDC performed EPA Level III and IV equivalent data validation for a full suite of analyses on more than 50,000 soil and water samples. Analyses included tritium, isotopic thorium, uranium and plutonium, and gross alpha/beta. Expedited turnaround times were included (5 day TAT)	EPA Level III and IV data validation reports. Work conducted under US Navy RAC program, Southwest Div.	>50,000 Soil and Water	\$645,733	02/2001-present
AECOM (Earth Tech) 700 Bishop Street Honolulu, HI 96813 Contact: Scott Lewis (808) 523-8874 Scott.Lewis@aecom.com	Data validation per EPA level "3/C" and "4/D" guidelines for volatile organic, semivolatile organic, pesticides/PCBs, herbicides, phenols, phosphorus pesticides, dioxin, radiochemical, and trace metal analyses in soil, water, and tissue matrices. (Navy PACDIV CLEAN, Honolulu, HI)	LDC worksheets and validation reports	>10,000 samples Water/Soil/Air	\$750,000	4/98-present
CBI (formerly Shaw E&I) 3347 Michelson Drive, Ste 200 Irvine, CA 92612 Contact: Mr. Dwayne Ishida Phone: (949) 660-7561 Dwayne.Ishida@CBIFederalServices.com	Data validation per EPA level "3" and "4" and AFCEE/AFCEC guidelines for volatile organic, semivolatile organic, pesticides/PCBs, herbicides, phenols, phosphorus pesticides, dioxin, radiochemical, and trace metal analyses in soil, water, and tissue matrices. (Navy Southwest Division RAC, San Diego, CA and various AFCEE/AFCEC projects)	LDC worksheets and validation reports	>5000 samples Water/Soil/Air	\$350,000	6/06-present



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

Name and Address, Contact Person, Telephone	Work Description and Location	Requested Deliverables	Number of samples/ Matrix	Value (\$)	Start/Stop
Santa Clara Pueblo Office of Environmental Affairs 578 Kee Street Española, New Mexico, 87532 Ms. Ernestine Naranjo 505-692-6270 phone 505-747-2728 fax enaranjo@santaclarapueblo.org	Data validation per EPA level "III" SCP-OEA-DEPO, Data Validation using ADR For full suite of Organic, Inorganic, and Radiochemical analyses. Radiochemical analyses including Gross alpha & beta, Gamma Spectroscopy, Iodine, Radium-226/228, Strontium-90, Isotopic Pu, Th, and U, Tritium, and Americium by various EPA and GA methods.	Level III validation using ADR	>750 Soil, Water, and Air	\$11,987.05	12/2015 - present
Anchor Environmental, LLC 720 Olive Way, Suite 1900 Seattle, WA 98101 Ms. Joy Dunay 206.287.9130, jdunay@anchoragea.com	Data validation per Level "C" Newtown Creek Phase 2: Third Party Data Validation of laboratory results, EDD population, and Data Quality Assessment Reports (DQAR) for various methods Subcontractor	LDC worksheets and validation reports	>63,000 Soil and Water	\$743,793.88	6/14-1/16
Tradebe Environmental Services, LLC. 628 South Saratoga Street Cohoes, NY 12047 Attn: Accounts Payable Mr. Tom VanVranken (518) 235-0401 tom.vanvranken@tradebe.com	Norlite MACT Project LDC performed Category B equivalent data validation Analyses included: Metals, Mercury, Heat Content, Ash Content, Chlorine, Density, and Dioxins	Category B data validation and NYSDEC DUSR reports	11 Soil, Air and Water	\$2,000.00	9/2013
P.W.Grosser Consulting 630 Johnson Ave, Suite 7 Bohemia, NY 11716 Attn: Mr. Derek Ersbak w. 631.589.6353 f. 631.589.8705 dereke@pwgrossex.com	Former Arkansas Chemical Co.Site and Former Ronkonkoma Wallpaper Site 203 Jay St. LDC performed Category B equivalent data validation Analyses included: VOC, SVOC, Pesticide, PCB, Metals, Wet Chemistry	Category B data validation and NYSDEC DUSR reports	>200 Soil and Water	\$3,024.00	11/2014-present



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

Name and Address, Contact Person, Telephone	Work Description and Location	Requested Deliverables	Number of samples/ Matrix	Value (\$)	Start/Stop
Amec Foster Wheeler Environment and Infrastructure, Inc. 9210 Sky Park Court, Suite 200 San Diego, CA 92123 Attn: Mr. Rolf Schottle rolf.schottle@amecfw.com Tel +1 (858) 300 4300, Fax +1 (858) 300 4301, Direct +1 (858) 300 4323	Regional Harbor Monitoring Program (RHMP), San Diego, California Third party validation of LDC performed EPA Level III and IV equivalent data validation for a full suite of analyses.	LDC worksheets and validation reports	>200 Water	\$9,011.40	3/15–6/16

Note: All above projects were 100% self-performed by LDC

Appendix D

Data Usability Summary Report



IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Impact Environmental
170 Keyland Court
Bohemia, NY 11716
ATTN: Mr. Christopher Connolly
CConnolly@impactenvironmental.com

May 20, 2021

SUBJECT: 100 S 4th Street, Brooklyn, NY, Data Validation

Dear Mr. Connolly,

Enclosed is the final validation report for the fraction listed below. This SDG was received on April 23, 2021. Attachment 1 is a summary of the samples that were reviewed for analysis.

LDC Project #50968:

SDG #

Fraction

L2112425

Volatiles

The data validation was performed under Category B guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA Region 2 Analysis of Volatile Organic Compounds in Air Contained Canisters, SOP HW-31, Revision 6; September 2016
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA-R-2017-002; January 2017

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink
crink@lab-data.com
Project Manager/Senior Chemist

Site: 100 South 4th Street, Brooklyn, NY
Laboratory: Alpha Analytical, Inc.
Report No.: L2112425
Reviewer: Felomina Tanguilig and Christina Rink/Laboratory Data Consultants for
Impact Environmental, Bohemia, NY
Date: May 13, 2021

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
SV-1A	L2112425-01	VOC
SV-1B	L2112425-02	VOC
SV-2A	L2112425-03	VOC
SV-2B	L2112425-04	VOC
SV-3B	L2112425-05	VOC
SV-3A	L2112425-06	VOC
SV-4	L2112425-07	VOC
SV-5A	L2112425-08	VOC
SV-5B	L2112425-09	VOC
SV-DUP-1	L2112425-10	VOC
SV-DUP-2	L2112425-11	VOC
IA-1	L2112425-12	VOC
IA-2	L2112425-13	VOC
IA-3	L2112425-14	VOC
IA-4A	L2112425-15	VOC
IA-4B	L2112425-16	VOC
IA-4C	L2112425-17	VOC
IA-4CDL	L2112425-17DL	VOC
IA-4D	L2112425-18	VOC
IA-4E	L2112425-19	VOC
IA-4F	L2112425-20	VOC
IA-4G	L2112425-21	VOC
IA-4GDL	L2112425-21DL	VOC
IA-4H	L2112425-22	VOC
IA-5	L2112425-23	VOC
IA-DUP-1	L2112425-24	VOC
IA-DUP-2	L2112425-25	VOC
OA-1	L2112425-26	VOC
IA-2DUP	L2112425-13DUP	VOC
IA-4DDUP	L2112425-18DUP	VOC

Associated QC Samples(s):

Field/Trip Blanks: None Associated
Field Duplicate pair: SV-1A and SV-DUP-1
SV-4 and SV-DUP-2
IA-4A and IA-DUP-1
IA-5 and IA-DUP-2

The above-listed air samples were collected on March 12, 2021 and were analyzed for volatile organic compounds (VOCs) by methods TO-15 and TO-15 in selected ion monitoring (SIM) mode. The data validation was performed in accordance with the USEPA Region 2 *Analysis of Volatile Organic Compounds in Air Contained Canisters*, SOP HW-31, Revision 6 (September 2016) and the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, EPA 540-R-2017-002 (January 2017), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers with the exception listed below.

Samples IA-4C and IA-4G were diluted for ethanol due to original analyses exceeding the calibration range. For ethanol results in samples IA-4C and IA-4G, the diluted results should be considered the most usable. The IA-4C and IA-4G results should not be considered usable for ethanol

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

Initial calibration:

All criteria were met.

Compounds that did not meet criteria are summarized in the following table.

Date	Instrument ID	Compound	ICV %D	Associated Samples		Validation Action
12/21/20	ICV-AIRLAB17	1,2,4-Trichlorobenzene Hexachlorobutadiene	34.1	IA-4C	SS	UJ nondetects
			35.4	IA-4D	SS	UJ nondetects
				IA-4E		
				IA-4F		
				IA-4G		
				IA-4H		
				IA-5		
				IA-DUP-1		
				IA-DUP-2		
				OA-1		

- X = Initial calibration (IC) relative standard deviation (%RSD) > 30; estimate (J/UJ) positive and nondetect results.
- XX = Continuing calibration (CC) percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
- SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
- + = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,2,4-trichlorobenzene and hexachlorobutadiene results were estimated due to second source verification exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

All criteria were met.

Blanks

Contamination was not detected in the method blanks.

A field blank was not associated with this sample set. Validation action was not required on this basis.

Laboratory Duplicate Results

Laboratory duplicates were performed on samples IA-2 and IA-4D for VOC analyses. All criteria were met.

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples SV-1A and SV-DUP-1, samples SV-4 and SV-DUP-2, samples IA-4A and IA-DUP-1, and samples IA-5 and IA-DUP-2 were submitted as the field duplicate pairs with this sample group. The following table summarizes the concentrations and validation actions taken.

Compound	Concentration (ppbv)		RPD
	SV-1A	SV-DUP-1	
Dichlorodifluoromethane	0.409	0.403	1
Ethanol	81.2	68.2	17
Acetone	193	120	47
Isopropanol	6.29	6.29	0
tert-Butyl alcohol	1.72	0.508	109
Carbon disulfide	0.200U	0.403	Not comparable
1,1-Dichloroethane	0.809	0.353	78
2-Butanone	2.79	1.39	67
cis-1,2-Dichloroethene	1.93	0.645	100
Chloroform	0.390	0.408	5
n-Hexane	0.222	0.200U	Not comparable
1,1,1-Trichloroethane	1.30	0.857	41
Benzene	0.262	0.212	21
Trichloroethene	22.4	16.9	28
Toluene	0.552	0.527	5
2-Hexanone	0.319	0.200U	Not comparable
Tetrachloroethene	6.78	5.60	19

Compound	Concentration (ppbv)		RPD
	SV-4	SV-DUP-2	
Dichlorodifluoromethane	0.582	0.503	15
Chloromethane	0.200U	0.373	Not comparable
Ethanol	24.4	42.0	53
Acetone	3.86	5.98	43
Isopropanol	4.20	9.86	81
tert-Butyl alcohol	0.782	1.78	78
2-Butanone	1.24	1.74	34
Chloroform	2.18	0.643	109
Trichloroethene	3.90	3.03	25
Toluene	0.589	1.02	54
2-Hexanone	0.216	0.371	53
Tetrachloroethene	0.687	0.835	19
Ethylbenzene	0.459	0.790	53
m,p-Xylene	0.812	1.43	55
o-Xylene	0.430	0.670	44
1,3,5-Trimethylbenzene	0.200U	0.347	Not comparable
1,2,4-Trimethylbenzene	0.200U	0.341	Not comparable

Compound	Concentration (ppbv)		RPD
	IA-4A	IA-DUP-1	
Dichlorodifluoromethane	0.408	0.497	20
Chloromethane	0.532	0.524	2
Ethanol	472	438	7
Acetone	15.3	16.4	7
Trichlorofluoromethane	0.226	0.336	39
Isopropanol	93.4	104	11
2-Butanone	0.521	0.519	0
Ethyl acetate	0.733	0.955	26
n-Hexane	0.247	0.242	2
Benzene	0.341	0.336	1
Cyclohexane	0.565	0.533	6
n-Heptane	8.56	8.44	1
Toluene	1.41	1.37	3
m,p-Xylene	0.442	0.481	8
Carbon tetrachloride	0.062	0.082	28
Trichloroethene	0.064	0.069	8
Tetrachloroethene	0.153	0.153	0

Compound	Concentration (ppbv)		RPD
	IA-5	IA-DUP-2	
Dichlorodifluoromethane	0.492	0.491	0
Chloromethane	0.476	0.473	1
Ethanol	479	467	3
Acetone	10.2	10.1	1
Trichlorofluoromethane	1.11	1.06	5
Isopropanol	47.4	46.4	2
2-Butanone	0.797	0.838	5
Ethyl acetate	2.47	2.37	4

Compound	Concentration (ppbv)		RPD
	IA-5	IA-DUP-2	
Chloroform	0.271	0.257	5
n-Hexane	0.200U	0.212	Not comparable
Benzene	0.329	0.331	1
n-Heptane	0.202	0.204	1
Toluene	0.742	0.739	0
m,p-Xylene	0.456	0.431	6
1,2,4-Trimethylbenzene	0.283	0.246	14
Carbon tetrachloride	0.093	0.083	11
Trichloroethene	0.055	0.054	2
Tetrachloroethene	0.078	0.077	1

Quantitation Limits and Data Assessment

No results were reported below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analyses.

Due to high target compound levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	VOC Analyses Reported
SV-1B	3.125-fold dilution due to nature of sample matrix
SV-2B	10-fold dilution due to nature of sample matrix
SV-3A	2.941-fold dilution due to nature of sample matrix
IA-4CDL	5-fold dilution due to high compound level for ethanol
IA-4GDL	2.5-fold dilution due to high compound level for ethanol

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

- U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified “J” data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The ‘J’ data may be biased high or low or the direction of the bias may be indeterminable.
- UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified “UJ” data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The ‘UJ’ data may be biased low.
- JN - The analysis indicates the presence of a compound that has been “tentatively identified” (N) and the associated numerical value represents its approximate (J) concentration.
- R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 50968A48

VALIDATION COMPLETENESS WORKSHEET

SDG #: L2112425

Category B

Laboratory: Alpha Analytical, Inc.

Date: 5/10/21

Page: 1 of 2

Reviewer: EF

2nd Reviewer:

METHOD: GC/MS Volatiles (EPA Method TO-15) † TO-15 SIM

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	Δ, SW	% RSD / ICV ≤ 30
IV.	Continuing calibration	Δ	CCV ≤ 30
V.	Laboratory Blanks / canister check per batch	Δ	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates / DUP	N/Δ	
IX.	Laboratory control samples	Δ	LCS
X.	Field duplicates	SW	D = 1, 10 7, 11, 15, 24 23, 25
XI.	Internal standards	Δ	
XII.	Target analyte quantitation	Δ	No Results < RL > MDL
XIII.	Target analyte identification	Δ	
XIV.	System performance	Δ	
XV.	Leak Check Compounds	N	
XVI.	Overall assessment of data	SW	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	SV-1A D	L2112425-01	Air	03/12/21
2	SV-1B 3.12X	L2112425-02	Air	03/12/21
3	SV-2A	L2112425-03	Air	03/12/21
4	SV-2B 10X	L2112425-04	Air	03/12/21
5	SV-3B	L2112425-05	Air	03/12/21
6	SV-3A 2.941X	L2112425-06	Air	03/12/21
7	SV-4 D ₁	L2112425-07	Air	03/12/21
8	SV-5A	L2112425-08	Air	03/12/21
9	SV-5B	L2112425-09	Air	03/12/21
10	SV-DUP-1 D	L2112425-10	Air	03/12/21
11	SV-DUP-2 D ₁	L2112425-11	Air	03/12/21
12	IA-1 3	L2112425-12	Air	03/12/21
13	IA-2 3	L2112425-13	Air	03/12/21

12 → 16 C₁H₄ OQR, N, O₁, S, AA were analyzed as SIM

LDC #: 50968A48

VALIDATION COMPLETENESS WORKSHEET

SDG #: L2112425

Category B

Laboratory: Alpha Analytical, Inc.

Date: 5/10/21

Page: 26 of 2

Reviewer: PT2nd Reviewer: PT**METHOD:** GC/MS Volatiles (EPA Method TO-15)

	Client ID	Lab ID	Matrix	Date
14	3 IA-3	L2112425-14	Air	03/12/21
15	3 IA-4A D ₂	L2112425-15	Air	03/12/21
16	3 IA-4B	L2112425-16	Air	03/12/21
17	4 IA-4C ~~www = 5X~~ ~~all others = 1X~~	L2112425-17	Air	03/12/21
18	4 IA-4D	L2112425-18	Air	03/12/21
19	4 IA-4E	L2112425-19	Air	03/12/21
20	4 IA-4F	L2112425-20	Air	03/12/21
21	4 IA-4G	L2112425-21	Air	03/12/21
22	4 IA-4H	L2112425-22	Air	03/12/21
23	4 IA-5 D ₃	L2112425-23	Air	03/12/21
24	4 IA-DUP-1 D ₂	L2112425-24	Air	03/12/21
25	4 IA-DUP-2 D ₃	L2112425-25	Air	03/12/21
26	4 OA-1	L2112425-26	Air	03/12/21
27	4 IA-2DUP	L2112425-13DUP	Air	03/12/21
28	4 IA-4DDUP	L2112425-18DUP	Air	03/12/21
29	#17DL www only 5X			
30	#21DL www only 2.5X			
31				

Notes:

1	WG1476560-4				
2	WG1476567-4				
3	WG1476562-4	(SIM)			
4	WG1476568-4	(SIM)			

Method: Volatiles (EPA Method TO-15)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	☒	☐	☐	
Was canister pressure criteria met?	☒	☐	☐	
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	☒	☐	☐	
Were all samples analyzed within the 24 hour clock criteria?	☒	☐	☐	
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) $\leq$ 30%?	☒	☐	☐	
IIIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after every ICAL for each instrument?	☒	☐	☐	
Were all percent differences (%D) $\leq$ 30%?	☐	☒	☐	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 24 hours for each instrument?	☒	☐	☐	
Were all percent differences (%D) $\leq$ 30%?	☒	☐	☐	
V. Laboratory Blanks/Canister Blanks				
Was a laboratory blank associated with every sample in this SDG?	☒	☐	☐	
Was a laboratory blank analyzed at least once every 24 hours for each matrix and concentration?	☒	☐	☐	
Was there contamination in the laboratory blanks?	☐	☒	☐	
Was a canister blank analyzed for every canister?	☒	☐	☐	
Was there contamination in the canister blanks?	☐	☒	☐	
VI. Field Blanks				
Were field blanks identified in this SDG?	☐	☒	☐	
Were target compounds detected in the field blanks?	☐	☐	☒	
VII. Surrogate spikes (Optional)				
Were all surrogate percent recoveries (%R) within QC limits?	☐	☐	☒	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VIII. Laboratory Duplicate				
Was a laboratory duplicate analyzed for this SDG?	☒	☐	☐	
Were the relative percent differences (RPD) within the QC limits?	☒	☐	☐	

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch for this SDG?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	/			
Were target compounds detected in the field duplicates?	/			
XI. Internal standards				
Were internal standard area counts within $\pm 40\%$ from the associated calibration standard?	/			
Were retention times within ± 20.0 seconds from the associated calibration standard?	/			
XII. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and RLs adjusted to reflect all sample dilutions applicable to level IV validation?	/			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Leak check compounds				
Was a leak check compound used to evaluate sample integrity and included in the laboratory analyte list?	/		/	
Was the leak check compound detected in the samples? If yes, please see leak check validation findings worksheet.	.		/	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 50 968 A48**VALIDATION FINDINGS WORKSHEET**
Overall Assessment of DataPage: 1 of 1
Reviewer: FT**METHOD:** GC/MS VOA (EPA Method TO-15)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Y N N/A Was the overall quality and usability of the data acceptable?

#	Date	Compound	Finding	Associated Samples	Qualifications
		~~#~~ www	x'd cal Range	17, 21	NR/A

Comments: _____

LDC #: 50968 AY8

VALIDATION FINDINGS WORKSHEET

Initial Calibration Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA Method TO-15)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

~~Y~~ ~~N~~ N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y/N	N/A	Were all percent differences (%D) $\leq 30\%$?

[illegible]

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: GCMS VOA (EPA Method TO-15)

Compound	Concentration (ppbv)		RPD
	1	10	
JJ	0.409	0.403	1
WWW	81.2	68.2	17
F	193	120	47
Isopropanol	6.29	6.29	0
ZZZ	1.72	0.508	109
G	0.200U	0.403	NC
I	0.809	0.353	78
M	2.79	1.39	67
QQQ	1.93	0.645	100
K	0.390	0.408	5
n-B1	0.222	0.200U	NC
N	1.30	0.857	41
V	0.262	0.212	21
S	22.4	16.9	28
CC	0.552	0.527	5
Z	0.319	0.200U	NC
AA	6.78	5.60	19

VALIDATION FINDINGS WORKSHEET
Field Duplicates**METHOD:** GCMS VOA (EPA Method TO-15)

Compound	Concentration (ppbv)		RPD
	7	11	
JJ	0.582	0.503	15
A	0.200U	0.373	NC
WWW	24.4	42.0	53
F	3.86	5.98	43
Isopropanol	4.20	9.86	81
ZZZ	0.782	1.78	78
M	1.24	1.74	34
K	2.18	0.643	109
S	3.90	3.03	25
CC	0.589	1.02	54
Z	0.216	0.371	53
AA	0.687	0.835	19
EE	0.459	0.790	53
RRR	0.812	1.43	55
SSS	0.430	0.670	44
AAA	0.200U	0.347	NC
DDD	0.200U	0.341	NC

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: GCMS VOA (EPA Method TO-15)

Compound	Concentration (ppbv)		RPD
	15	24	
JJ	0.408	0.497	20
A	0.532	0.524	2
WWW	472	438	7
F	15.3	16.4	7
KK	0.226	0.336	39
Isopropanol	93.4	104	11
M	0.521	0.519	0
RRRR	0.733	0.955	26
n-B1	0.247	0.242	2
V	0.341	0.336	1
SSSS	0.565	0.533	6
n-C1	8.56	8.44	1
CC	1.41	1.37	3
RRR	0.442	0.481	8
O	0.062	± 0.082	~~200~~ 28
S	0.064	± 0.069	~~200~~ 8
AA	0.153	± 0.153	~~200~~ 0

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: GCMS VOA (EPA Method TO-15)

Compound	Concentration (ppbv)		RPD
	23	25	
JJ	0.492	0.491	0
A	0.476	0.473	1
WWW	479	467	3
F	10.2	10.1	1
KK	1.11	1.06	5
Isopropanol	47.4	46.4	2
M	0.797	0.838	5
RRRR	2.47	2.37	4
K	0.271	0.257	5
n-B1	0.200U	0.212	NC
V	0.329	0.331	1
n-C1	0.202	0.204	1
CC	0.742	0.739	0
RRR	0.456	0.431	6
DDD	0.283	0.246	14
need to add sim analytes when f/up arrive			??
<i>Ø</i>	<i>0.093</i>	<i>0.083</i>	<i>?? 11</i>
<i>S</i>	<i>0.055</i>	<i>0.054</i>	<i>?? 2</i>
<i>AD</i>	<i>0.076</i>	<i>0.077</i>	<i>?? 1</i>
			??

LDC #: 50968A48

VALIDATION FINDINGS WORKSHEET **Initial Calibration Calculation Verification**

 Page: 1 of 1
 Reviewer: FT
METHOD: GC/MS VOA (EPA Method TO-15)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

 A_x = Area of compound, C_x = Concentration of compound, S = Standard deviation of the RRFs X = Mean of the RRFs A_{is} = Area of associated internal standard C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF 10 (ppbv) ^{std}	RRF 10 (ppbv) ^{std}	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL AIRLAB17	12/20/20	QQQ	0.863	0.863	0.860	0.860	4.47	4.47
			V	0.658	0.658	0.678	0.678	9.93	9.93
			CC	5.257	5.257	5.482	5.482	10.72	10.72
2	ICAL AIRLAB16	3/18/21	QQQ	0.680	0.680	0.6663	0.6663	7.77	7.77
			V	0.758	0.758	0.7682	0.7682	11.85	11.85
			CC	5.199	5.199	5.3109	5.3109	15.79	15.79
3	ICAL AIRLAB16 TOIS S/M	3/18/21	C	0.494	0.494	0.5265	0.5265	7.54	7.54
			S	0.325	0.325	0.3375	0.3375	8.27	8.27
			AA	2.508	2.508	2.5844	2.5844	6.91	6.91

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 50968A48

VALIDATION FINDINGS WORKSHEET **Initial Calibration Calculation Verification**

 Page: of
 Reviewer:
METHOD: GC/MS VOA (EPA Method TO-15)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

 A_x = Area of compound, C_x = Concentration of compound, S = Standard deviation of the RRFs X = Mean of the RRFs A_{is} = Area of associated internal standard C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF (<u>10</u> std)	RRF (<u>10</u> std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	ICAL	12/20/20	C	0.681	0.681	0.6950	0.6950	4.24	4.24
	AIRLAB17		S	0.289	0.289	0.2998	0.2998	6.77	6.77
	SIM		AA	2.100	2.100	2.1773	2.1773	5.26	5.26
2									
3									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 50968 A18

VALIDATION FINDINGS WORKSHEET **Continuing Calibration Results Verification**

 Page: 1 of 1
 Reviewer: FT
METHOD: GC/MS VOA (EPA TO-15)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 $\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

A_x = Area of compound,

C_x = Concentration of compound,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (Initial)	Reported	Recalculated	Reported	Recalculated
					RRF (CC)	RRF (CC)	%D	%D
1	3 CCV	3/19/21	QQQ	0.860	0.785	0.785	8.7	8.7
	AIRLAB 17		V	0.678	0.545	0.545	19.6	19.6
	#291151		CC	5.482	4.402	4.402	19.7	19.7
2	CCV	3/19/21	QQA	0.6663	0.661	0.661	0.8	0.8
	AIRLAB 16		V	0.7682	0.739	0.739	3.8	3.8
	1129		CC	5.3109	5.017	5.017	5.5	5.5
3	CCV SIM	3/19/21	C	0.5265	0.486	0.486	7.6	7.6
	1208		S	0.3375	0.313	0.313	7.1	7.1
	AIRLAB 16		AA	2.5844	2.472	2.472	4.3	4.3

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 50968A48

VALIDATION FINDINGS WORKSHEET **Continuing Calibration Results Verification**

 Page: 1 of 1
 Reviewer: FT

 METHOD: GC _____ HPLC _____ GEMS TOIS

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$$

Where: ave. CF = initial calibration average CF

CF = continuing calibration CF

A = Area of compound

C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/ Conc. CCV	CF/ Conc. CCV	%D	%D
1	CCV 1:14 AIRLAB 77	3/19/21	C	0.6950	0.585	0.585	15.8	15.8
			S	0.2998	0.273	0.273	9.0	9.0
			AA	2.1773	2.010	2.010	7.7	7.7
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 50968A48

VALIDATION FINDINGS WORKSHEET **Laboratory Control Sample Results Verification**

 Page: 1 of 1
 Reviewer: FT
METHOD: GC/MS VOA (EPA Method TO-15)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * SSC/SA$
 Where: SSC = Spiked sample concentration
 SA = Spike added
RPD = $|LCS - LCSD| * 2 / (LCS + LCSD)$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: WG1476560-3

Compound	Spike Added (ppbv)		Spiked Sample Concentration (ppbv)		LCS		LCSD		LCS/LCSD	
					Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
JJ	10	NA	9.91	NA	99	99				
A	↓		9.12		91	91				
C			9.67		97	97				
B			9.56		96	96				
D	↓		9.32		93	93				
F	50	↓	38.6	↓	77	77	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #:

VALIDATION FINDINGS WORKSHEET

Reviewer: FT

METHOD: GC/MS VOA (EPA Method TO-15)

Y ~~N~~ N/A

Were all reported results recalculated and verified for all level IV samples?

Y	N	N/A

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_v)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, QQQ:

$$\text{Conc.} = \frac{(48432)(10.0)}{(377429)(0.6663)}$$

$$= 1.9258 \text{ ppbv}$$
[illegible]

100 S 4th Street, Brooklyn, NY - LDC# 50968

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-1A	L2112425-01	CARBON TETRACHLORIDE	3/19/2021		Y	N	U		U	1.26	0.314	ug/m3
SV-1A	L2112425-01	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	2.13	0.564	ug/m3
SV-1A	L2112425-01	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
SV-1A	L2112425-01	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
SV-1A	L2112425-01	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
SV-1A	L2112425-01	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	1.48	0.5	ug/m3
SV-1A	L2112425-01	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-1A	L2112425-01	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
SV-1A	L2112425-01	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
SV-1A	L2112425-01	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
SV-1A	L2112425-01	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
SV-1A	L2112425-01	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
SV-1A	L2112425-01	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
SV-1A	L2112425-01	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
SV-1A	L2112425-01	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
SV-1A	L2112425-01	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
SV-1A	L2112425-01	CHLOROMETHANE	3/19/2021		Y	N	U		U	0.413	0.142	ug/m3
SV-1A	L2112425-01	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
SV-1A	L2112425-01	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
SV-1A	L2112425-01	ETHYL ACETATE	3/19/2021		Y	N	U		U	1.8	0.44	ug/m3
SV-1A	L2112425-01	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
SV-1A	L2112425-01	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
SV-1A	L2112425-01	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-1A	L2112425-01	HEPTANE	3/19/2021		Y	N	U		U	0.82	0.193	ug/m3
SV-1A	L2112425-01	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
SV-1A	L2112425-01	TETRACHLOROETHENE	3/19/2021	46	Y	Y				1.36	0.444	ug/m3
SV-1A	L2112425-01	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
SV-1A	L2112425-01	1,1,1-TRICHLOROETHANE	3/19/2021	7.09	Y	Y				1.09	0.273	ug/m3
SV-1A	L2112425-01	1,1-DICHLOROETHANE	3/19/2021	3.27	Y	Y				0.809	0.254	ug/m3
SV-1A	L2112425-01	2-BUTANONE	3/19/2021	8.23	Y	Y				1.47	0.142	ug/m3
SV-1A	L2112425-01	2-HEXANONE	3/19/2021	1.31	Y	Y				0.82	0.266	ug/m3
SV-1A	L2112425-01	ACETONE	3/19/2021	458	Y	Y				2.38	1.64	ug/m3
SV-1A	L2112425-01	BENZENE	3/19/2021	0.837	Y	Y				0.639	0.156	ug/m3
SV-1A	L2112425-01	CHLOROFORM	3/19/2021	1.9	Y	Y				0.977	0.309	ug/m3
SV-1A	L2112425-01	DICHLORODIFLUOROMETHANE	3/19/2021	2.02	Y	Y				0.989	0.288	ug/m3
SV-1A	L2112425-01	ETHYL ALCOHOL	3/19/2021	153	Y	Y				9.42	1.38	ug/m3
SV-1A	L2112425-01	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
SV-1A	L2112425-01	TERT-BUTYL ALCOHOL	3/19/2021	5.21	Y	Y				1.52	0.141	ug/m3
SV-1A	L2112425-01	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
SV-1A	L2112425-01	TOLUENE	3/19/2021	2.08	Y	Y				0.754	0.196	ug/m3
SV-1A	L2112425-01	TRICHLOROETHENE	3/19/2021	120	Y	Y				1.07	0.271	ug/m3
SV-1A	L2112425-01	CIS-1,2-DICHLOROETHENE	3/19/2021	7.65	Y	Y				0.793	0.464	ug/m3
SV-1A	L2112425-01	N-HEXANE	3/19/2021	0.782	Y	Y				0.705	0.128	ug/m3
SV-1A	L2112425-01	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
SV-1A	L2112425-01	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
SV-1A	L2112425-01	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
SV-1A	L2112425-01	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
SV-1A	L2112425-01	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-1A	L2112425-01	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
SV-1A	L2112425-01	ISO-PROPYL ALCOHOL	3/19/2021	15.5	Y	Y				1.23	1.17	ug/m3
SV-1A	L2112425-01	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
SV-1A	L2112425-01	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
SV-1A	L2112425-01	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
SV-1A	L2112425-01	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-1A	L2112425-01	P/M-XYLENE	3/19/2021		Y	N	U		U	1.74	0.395	ug/m3
SV-1A	L2112425-01	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
SV-1A	L2112425-01	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
SV-1A	L2112425-01	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
SV-1A	L2112425-01	TRICHLOROFLUOROMETHANE	3/19/2021		Y	N	U		U	1.12	0.386	ug/m3
SV-1A	L2112425-01	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
SV-1A	L2112425-01	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
SV-1A	L2112425-01	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
SV-1A	L2112425-01	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.511	0.16	ug/m3
SV-1B	L2112425-02	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	4.37	1.29	ug/m3
SV-1B	L2112425-02	ETHYL ALCOHOL	3/19/2021	795	Y	Y				29.4	4.31	ug/m3
SV-1B	L2112425-02	ETHYLBENZENE	3/19/2021	4.04	Y	Y				2.71	0.586	ug/m3
SV-1B	L2112425-02	ISO-PROPYL ALCOHOL	3/19/2021	7.67	Y	Y				3.83	3.66	ug/m3
SV-1B	L2112425-02	TETRACHLOROETHENE	3/19/2021	1240	Y	Y				4.24	1.39	ug/m3
SV-1B	L2112425-02	TOLUENE	3/19/2021	4.94	Y	Y				2.36	0.61	ug/m3
SV-1B	L2112425-02	TRICHLOROETHENE	3/19/2021	1000	Y	Y				3.36	0.849	ug/m3
SV-1B	L2112425-02	CIS-1,2-DICHLOROETHENE	3/19/2021	88	Y	Y				2.48	1.45	ug/m3
SV-1B	L2112425-02	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	6.67	1.76	ug/m3
SV-1B	L2112425-02	P/M-XYLENE	3/19/2021	7.43	Y	Y				5.43	1.23	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-1B	L2112425-02	HEPTANE	3/19/2021		Y	N	U		U	2.56	0.602	ug/m3
SV-1B	L2112425-02	ACETONE	3/19/2021	21.1	Y	Y				7.41	5.11	ug/m3
SV-1B	L2112425-02	CARBON DISULFIDE	3/19/2021		Y	N	U		U	1.95	0.545	ug/m3
SV-1B	L2112425-02	O-XYLENE	3/19/2021	3.87	Y	Y				2.71	0.617	ug/m3
SV-1B	L2112425-02	CARBON TETRACHLORIDE	3/19/2021		Y	N	U		U	3.93	0.981	ug/m3
SV-1B	L2112425-02	ETHYL ACETATE	3/19/2021		Y	N	U		U	5.62	1.37	ug/m3
SV-1B	L2112425-02	DICHLORODIFLUOROMETHANE	3/19/2021		Y	N	U		U	3.09	0.9	ug/m3
SV-1B	L2112425-02	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	5.32	1.64	ug/m3
SV-1B	L2112425-02	CYCLOHEXANE	3/19/2021		Y	N	U		U	2.15	0.396	ug/m3
SV-1B	L2112425-02	CHLOROMETHANE	3/19/2021		Y	N	U		U	1.29	0.444	ug/m3
SV-1B	L2112425-02	CHLOROFORM	3/19/2021		Y	N	U		U	3.05	0.967	ug/m3
SV-1B	L2112425-02	BROMOFORM	3/19/2021		Y	N	U		U	6.46	2.07	ug/m3
SV-1B	L2112425-02	CHLOROBENZENE	3/19/2021		Y	N	U		U	2.88	0.898	ug/m3
SV-1B	L2112425-02	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	6.39	0.541	ug/m3
SV-1B	L2112425-02	VINYL CHLORIDE	3/19/2021		Y	N	U		U	1.6	0.501	ug/m3
SV-1B	L2112425-02	BROMOMETHANE	3/19/2021		Y	N	U		U	2.43	0.94	ug/m3
SV-1B	L2112425-02	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	2.25	0.591	ug/m3
SV-1B	L2112425-02	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	4.19	1.06	ug/m3
SV-1B	L2112425-02	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	3.24	0.782	ug/m3
SV-1B	L2112425-02	BENZENE	3/19/2021		Y	N	U		U	2	0.486	ug/m3
SV-1B	L2112425-02	CHLOROETHANE	3/19/2021		Y	N	U		U	1.65	0.665	ug/m3
SV-1B	L2112425-02	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	3.07	0.565	ug/m3
SV-1B	L2112425-02	TRICHLOROFLUOROMETHANE	3/19/2021		Y	N	U		U	3.51	1.2	ug/m3
SV-1B	L2112425-02	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	3.07	1.04	ug/m3
SV-1B	L2112425-02	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	2.89	0.883	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-1B	L2112425-02	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	2.84	0.617	ug/m3
SV-1B	L2112425-02	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	2.53	0.761	ug/m3
SV-1B	L2112425-02	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	3.76	1.18	ug/m3
SV-1B	L2112425-02	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	4.8	1.34	ug/m3
SV-1B	L2112425-02	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	3.76	1.2	ug/m3
SV-1B	L2112425-02	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	4.64	1.57	ug/m3
SV-1B	L2112425-02	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	2.48	0.797	ug/m3
SV-1B	L2112425-02	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	2.53	0.793	ug/m3
SV-1B	L2112425-02	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	3.41	1.14	ug/m3
SV-1B	L2112425-02	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	4.29	1.32	ug/m3
SV-1B	L2112425-02	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	3.41	0.851	ug/m3
SV-1B	L2112425-02	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	3.76	1.18	ug/m3
SV-1B	L2112425-02	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	2.48	0.797	ug/m3
SV-1B	L2112425-02	STYRENE	3/19/2021		Y	N	U		U	2.66	0.579	ug/m3
SV-1B	L2112425-02	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	4.73	0.443	ug/m3
SV-1B	L2112425-02	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	4.6	0.525	ug/m3
SV-1B	L2112425-02	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	4.79	1.57	ug/m3
SV-1B	L2112425-02	VINYL BROMIDE	3/19/2021		Y	N	U		U	2.73	0.979	ug/m3
SV-1B	L2112425-02	1,3-BUTADIENE	3/19/2021		Y	N	U		U	1.38	0.462	ug/m3
SV-1B	L2112425-02	N-HEXANE	3/19/2021		Y	N	U		U	2.2	0.402	ug/m3
SV-1B	L2112425-02	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	5.42	1.46	ug/m3
SV-1B	L2112425-02	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	3.07	0.57	ug/m3
SV-1B	L2112425-02	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	1.96	0.573	ug/m3
SV-1B	L2112425-02	2-HEXANONE	3/19/2021		Y	N	U		U	2.56	0.828	ug/m3
SV-1B	L2112425-02	2-BUTANONE	3/19/2021		Y	N	U		U	4.6	0.445	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-1B	L2112425-02	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	2.92	0.528	ug/m3
SV-1B	L2112425-02	1,4-DIOXANE	3/19/2021		Y	N	U		U	2.25	0.908	ug/m3
SV-1B	L2112425-02	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	2.84	0.581	ug/m3
SV-2A	L2112425-03	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.273	ug/m3
SV-2A	L2112425-03	ETHYL ALCOHOL	3/19/2021	524	Y	Y				9.42	1.38	ug/m3
SV-2A	L2112425-03	TETRACHLOROETHENE	3/19/2021	5.2	Y	Y				1.36	0.444	ug/m3
SV-2A	L2112425-03	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
SV-2A	L2112425-03	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
SV-2A	L2112425-03	P/M-XYLENE	3/19/2021	25.4	Y	Y				1.74	0.395	ug/m3
SV-2A	L2112425-03	O-XYLENE	3/19/2021	14.3	Y	Y				0.869	0.197	ug/m3
SV-2A	L2112425-03	CIS-1,2-DICHLOROETHENE	3/19/2021	5.35	Y	Y				0.793	0.464	ug/m3
SV-2A	L2112425-03	VINYL CHLORIDE	3/19/2021	0.537	Y	Y				0.511	0.16	ug/m3
SV-2A	L2112425-03	ACETONE	3/19/2021	19.9	Y	Y				2.38	1.64	ug/m3
SV-2A	L2112425-03	TOLUENE	3/19/2021	15	Y	Y				0.754	0.196	ug/m3
SV-2A	L2112425-03	2-BUTANONE	3/19/2021	1.8	Y	Y				1.47	0.142	ug/m3
SV-2A	L2112425-03	TERT-BUTYL ALCOHOL	3/19/2021	5.73	Y	Y				1.52	0.141	ug/m3
SV-2A	L2112425-03	STYRENE	3/19/2021	1.28	Y	Y				0.852	0.185	ug/m3
SV-2A	L2112425-03	ISO-PROPYL ALCOHOL	3/19/2021	2.04	Y	Y				1.23	1.17	ug/m3
SV-2A	L2112425-03	ETHYLBENZENE	3/19/2021	15.3	Y	Y				0.869	0.188	ug/m3
SV-2A	L2112425-03	DICHLORODIFLUOROMETHANE	3/19/2021	2.02	Y	Y				0.989	0.288	ug/m3
SV-2A	L2112425-03	2-HEXANONE	3/19/2021	1.41	Y	Y				0.82	0.266	ug/m3
SV-2A	L2112425-03	TRICHLOROETHENE	3/19/2021	16.5	Y	Y				1.07	0.271	ug/m3
SV-2A	L2112425-03	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
SV-2A	L2112425-03	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
SV-2A	L2112425-03	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-2A	L2112425-03	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
SV-2A	L2112425-03	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
SV-2A	L2112425-03	BENZENE	3/19/2021		Y	N	U		U	0.639	0.156	ug/m3
SV-2A	L2112425-03	ETHYL ACETATE	3/19/2021		Y	N	U		U	1.8	0.44	ug/m3
SV-2A	L2112425-03	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
SV-2A	L2112425-03	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
SV-2A	L2112425-03	TRICHLOROFLUOROMETHANE	3/19/2021		Y	N	U		U	1.12	0.386	ug/m3
SV-2A	L2112425-03	HEPTANE	3/19/2021		Y	N	U		U	0.82	0.193	ug/m3
SV-2A	L2112425-03	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
SV-2A	L2112425-03	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	2.13	0.564	ug/m3
SV-2A	L2112425-03	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
SV-2A	L2112425-03	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
SV-2A	L2112425-03	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
SV-2A	L2112425-03	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
SV-2A	L2112425-03	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-2A	L2112425-03	N-HEXANE	3/19/2021		Y	N	U		U	0.705	0.128	ug/m3
SV-2A	L2112425-03	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
SV-2A	L2112425-03	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
SV-2A	L2112425-03	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
SV-2A	L2112425-03	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
SV-2A	L2112425-03	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
SV-2A	L2112425-03	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-2A	L2112425-03	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	1.48	0.5	ug/m3
SV-2A	L2112425-03	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
SV-2A	L2112425-03	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-2A	L2112425-03	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
SV-2A	L2112425-03	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
SV-2A	L2112425-03	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
SV-2A	L2112425-03	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
SV-2A	L2112425-03	CHLOROMETHANE	3/19/2021		Y	N	U		U	0.413	0.142	ug/m3
SV-2A	L2112425-03	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
SV-2A	L2112425-03	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
SV-2A	L2112425-03	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
SV-2A	L2112425-03	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
SV-2A	L2112425-03	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
SV-2A	L2112425-03	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
SV-2A	L2112425-03	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
SV-2A	L2112425-03	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
SV-2A	L2112425-03	CARBON TETRACHLORIDE	3/19/2021		Y	N	U		U	1.26	0.314	ug/m3
SV-2A	L2112425-03	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
SV-2A	L2112425-03	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
SV-2B	L2112425-04	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	9.83	1.81	ug/m3
SV-2B	L2112425-04	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	9.83	3.32	ug/m3
SV-2B	L2112425-04	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	9.34	1.69	ug/m3
SV-2B	L2112425-04	TRICHLOROETHENE	3/19/2021	3260	Y	Y				10.7	2.71	ug/m3
SV-2B	L2112425-04	TOLUENE	3/19/2021	7.88	Y	Y				7.54	1.96	ug/m3
SV-2B	L2112425-04	TETRACHLOROETHENE	3/19/2021	2710	Y	Y				13.6	4.44	ug/m3
SV-2B	L2112425-04	ETHYL ALCOHOL	3/19/2021	537	Y	Y				94.2	13.8	ug/m3
SV-2B	L2112425-04	ACETONE	3/19/2021	304	Y	Y				23.8	16.4	ug/m3
SV-2B	L2112425-04	1,4-DIOXANE	3/19/2021		Y	N	U		U	7.21	2.9	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-2B	L2112425-04	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	12	3.82	ug/m3
SV-2B	L2112425-04	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	7.93	2.55	ug/m3
SV-2B	L2112425-04	1,3-BUTADIENE	3/19/2021		Y	N	U		U	4.42	1.48	ug/m3
SV-2B	L2112425-04	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	10.9	2.73	ug/m3
SV-2B	L2112425-04	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	9.24	2.82	ug/m3
SV-2B	L2112425-04	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	8.09	2.44	ug/m3
SV-2B	L2112425-04	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	12	3.78	ug/m3
SV-2B	L2112425-04	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	15.4	4.31	ug/m3
SV-2B	L2112425-04	N-HEXANE	3/19/2021		Y	N	U		U	7.05	1.28	ug/m3
SV-2B	L2112425-04	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	14.8	5	ug/m3
SV-2B	L2112425-04	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	8.09	2.54	ug/m3
SV-2B	L2112425-04	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	10.9	3.66	ug/m3
SV-2B	L2112425-04	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	13.7	4.22	ug/m3
SV-2B	L2112425-04	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	12	3.77	ug/m3
SV-2B	L2112425-04	BROMOFORM	3/19/2021		Y	N	U		U	20.7	6.63	ug/m3
SV-2B	L2112425-04	P/M-XYLENE	3/19/2021		Y	N	U		U	17.4	3.95	ug/m3
SV-2B	L2112425-04	CYCLOHEXANE	3/19/2021		Y	N	U		U	6.88	1.27	ug/m3
SV-2B	L2112425-04	CHLOROMETHANE	3/19/2021		Y	N	U		U	4.13	1.42	ug/m3
SV-2B	L2112425-04	CHLOROFORM	3/19/2021		Y	N	U		U	9.77	3.09	ug/m3
SV-2B	L2112425-04	CHLOROETHANE	3/19/2021		Y	N	U		U	5.28	2.12	ug/m3
SV-2B	L2112425-04	CHLOROBENZENE	3/19/2021		Y	N	U		U	9.21	2.87	ug/m3
SV-2B	L2112425-04	CARBON TETRACHLORIDE	3/19/2021		Y	N	U		U	12.6	3.14	ug/m3
SV-2B	L2112425-04	DICHLORODIFLUOROMETHANE	3/19/2021		Y	N	U		U	9.89	2.88	ug/m3
SV-2B	L2112425-04	BROMOMETHANE	3/19/2021		Y	N	U		U	7.77	3	ug/m3
SV-2B	L2112425-04	ETHYL ACETATE	3/19/2021		Y	N	U		U	18	4.4	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-2B	L2112425-04	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	13.4	3.38	ug/m3
SV-2B	L2112425-04	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	10.4	2.5	ug/m3
SV-2B	L2112425-04	BENZENE	3/19/2021		Y	N	U		U	6.39	1.56	ug/m3
SV-2B	L2112425-04	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	20.5	1.73	ug/m3
SV-2B	L2112425-04	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	9.83	1.82	ug/m3
SV-2B	L2112425-04	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	6.26	1.83	ug/m3
SV-2B	L2112425-04	2-HEXANONE	3/19/2021		Y	N	U		U	8.2	2.66	ug/m3
SV-2B	L2112425-04	2-BUTANONE	3/19/2021		Y	N	U		U	14.7	1.42	ug/m3
SV-2B	L2112425-04	CARBON DISULFIDE	3/19/2021		Y	N	U		U	6.23	1.74	ug/m3
SV-2B	L2112425-04	STYRENE	3/19/2021		Y	N	U		U	8.52	1.85	ug/m3
SV-2B	L2112425-04	CIS-1,2-DICHLOROETHENE	3/19/2021	379	Y	Y				7.93	4.64	ug/m3
SV-2B	L2112425-04	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	9.08	1.98	ug/m3
SV-2B	L2112425-04	O-XYLENE	3/19/2021		Y	N	U		U	8.69	1.97	ug/m3
SV-2B	L2112425-04	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	9.08	1.86	ug/m3
SV-2B	L2112425-04	VINYL CHLORIDE	3/19/2021		Y	N	U		U	5.11	1.6	ug/m3
SV-2B	L2112425-04	VINYL BROMIDE	3/19/2021		Y	N	U		U	8.74	3.13	ug/m3
SV-2B	L2112425-04	TRICHLOROFLUOROMETHANE	3/19/2021		Y	N	U		U	11.2	3.86	ug/m3
SV-2B	L2112425-04	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	17	5.23	ug/m3
SV-2B	L2112425-04	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	15.2	1.41	ug/m3
SV-2B	L2112425-04	TRANS-1,2-DICHLOROETHENE	3/19/2021	8.21	Y	Y				7.93	2.55	ug/m3
SV-2B	L2112425-04	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	17.4	4.66	ug/m3
SV-2B	L2112425-04	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	7.21	1.89	ug/m3
SV-2B	L2112425-04	ISO-PROPYL ALCOHOL	3/19/2021		Y	N	U		U	12.3	11.7	ug/m3
SV-2B	L2112425-04	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	21.3	5.64	ug/m3
SV-2B	L2112425-04	HEPTANE	3/19/2021		Y	N	U		U	8.2	1.93	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-2B	L2112425-04	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	14	4.13	ug/m3
SV-2B	L2112425-04	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	15.3	5.03	ug/m3
SV-2B	L2112425-04	ETHYLBENZENE	3/19/2021		Y	N	U		U	8.69	1.88	ug/m3
SV-2B	L2112425-04	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	14.7	1.68	ug/m3
SV-3B	L2112425-05	DICHLORODIFLUOROMETHANE	3/19/2021	2.1	Y	Y				0.989	0.288	ug/m3
SV-3B	L2112425-05	P/M-XYLENE	3/19/2021	11.3	Y	Y				1.74	0.395	ug/m3
SV-3B	L2112425-05	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
SV-3B	L2112425-05	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
SV-3B	L2112425-05	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
SV-3B	L2112425-05	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
SV-3B	L2112425-05	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
SV-3B	L2112425-05	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
SV-3B	L2112425-05	2-BUTANONE	3/19/2021	5.9	Y	Y				1.47	0.142	ug/m3
SV-3B	L2112425-05	2-HEXANONE	3/19/2021	2.07	Y	Y				0.82	0.266	ug/m3
SV-3B	L2112425-05	ACETONE	3/19/2021	53.7	Y	Y				2.38	1.64	ug/m3
SV-3B	L2112425-05	BENZENE	3/19/2021	2.02	Y	Y				0.639	0.156	ug/m3
SV-3B	L2112425-05	BROMODICHLOROMETHANE	3/19/2021	1.96	Y	Y				1.34	0.338	ug/m3
SV-3B	L2112425-05	CARBON DISULFIDE	3/19/2021	9.09	Y	Y				0.623	0.174	ug/m3
SV-3B	L2112425-05	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
SV-3B	L2112425-05	TETRACHLOROETHENE	3/19/2021	138	Y	Y				1.36	0.444	ug/m3
SV-3B	L2112425-05	O-XYLENE	3/19/2021	6.52	Y	Y				0.869	0.197	ug/m3
SV-3B	L2112425-05	N-HEXANE	3/19/2021	1.56	Y	Y				0.705	0.128	ug/m3
SV-3B	L2112425-05	CIS-1,2-DICHLOROETHENE	3/19/2021	24.1	Y	Y				0.793	0.464	ug/m3
SV-3B	L2112425-05	TRICHLOROFLUOROMETHANE	3/19/2021	1.12	Y	Y				1.12	0.386	ug/m3
SV-3B	L2112425-05	TRICHLOROETHENE	3/19/2021	321	Y	Y				1.07	0.271	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-3B	L2112425-05	CHLOROFORM	3/19/2021	78.6	Y	Y				0.977	0.309	ug/m3
SV-3B	L2112425-05	TETRAHYDROFURAN	3/19/2021	2.22	Y	Y				1.47	0.168	ug/m3
SV-3B	L2112425-05	CYCLOHEXANE	3/19/2021	2.34	Y	Y				0.688	0.127	ug/m3
SV-3B	L2112425-05	TERT-BUTYL ALCOHOL	3/19/2021	4.67	Y	Y				1.52	0.141	ug/m3
SV-3B	L2112425-05	ISO-PROPYL ALCOHOL	3/19/2021	20.9	Y	Y				1.23	1.17	ug/m3
SV-3B	L2112425-05	HEPTANE	3/19/2021	0.84	Y	Y				0.82	0.193	ug/m3
SV-3B	L2112425-05	ETHYLBENZENE	3/19/2021	6.39	Y	Y				0.869	0.188	ug/m3
SV-3B	L2112425-05	ETHYL ALCOHOL	3/19/2021	492	Y	Y				9.42	1.38	ug/m3
SV-3B	L2112425-05	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
SV-3B	L2112425-05	TOLUENE	3/19/2021	8.03	Y	Y				0.754	0.196	ug/m3
SV-3B	L2112425-05	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
SV-3B	L2112425-05	CARBON TETRACHLORIDE	3/19/2021		Y	N	U		U	1.26	0.314	ug/m3
SV-3B	L2112425-05	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
SV-3B	L2112425-05	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
SV-3B	L2112425-05	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
SV-3B	L2112425-05	CHLOROMETHANE	3/19/2021		Y	N	U		U	0.413	0.142	ug/m3
SV-3B	L2112425-05	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
SV-3B	L2112425-05	ETHYL ACETATE	3/19/2021		Y	N	U		U	1.8	0.44	ug/m3
SV-3B	L2112425-05	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
SV-3B	L2112425-05	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
SV-3B	L2112425-05	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	2.13	0.564	ug/m3
SV-3B	L2112425-05	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
SV-3B	L2112425-05	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
SV-3B	L2112425-05	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
SV-3B	L2112425-05	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-3B	L2112425-05	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-3B	L2112425-05	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
SV-3B	L2112425-05	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
SV-3B	L2112425-05	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
SV-3B	L2112425-05	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
SV-3B	L2112425-05	1,1,1-TRICHLOROETHANE	3/19/2021	1.58	Y	Y				1.09	0.273	ug/m3
SV-3B	L2112425-05	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
SV-3B	L2112425-05	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	1.48	0.5	ug/m3
SV-3B	L2112425-05	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.511	0.16	ug/m3
SV-3B	L2112425-05	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
SV-3B	L2112425-05	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
SV-3B	L2112425-05	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
SV-3B	L2112425-05	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
SV-3B	L2112425-05	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-3B	L2112425-05	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
SV-3B	L2112425-05	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
SV-3B	L2112425-05	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
SV-3A	L2112425-06	CHLOROFORM	3/19/2021	54.7	Y	Y				2.87	0.908	ug/m3
SV-3A	L2112425-06	CIS-1,2-DICHLOROETHENE	3/19/2021	20	Y	Y				2.33	1.36	ug/m3
SV-3A	L2112425-06	VINYL CHLORIDE	3/19/2021		Y	N	U		U	1.5	0.47	ug/m3
SV-3A	L2112425-06	VINYL BROMIDE	3/19/2021		Y	N	U		U	2.57	0.923	ug/m3
SV-3A	L2112425-06	TRICHLOROFLUOROMETHANE	3/19/2021		Y	N	U		U	3.3	1.14	ug/m3
SV-3A	L2112425-06	N-HEXANE	3/19/2021		Y	N	U		U	2.07	0.377	ug/m3
SV-3A	L2112425-06	1,1,1-TRICHLOROETHANE	3/19/2021	3.79	Y	Y				3.21	0.802	ug/m3
SV-3A	L2112425-06	CHLOROETHANE	3/19/2021		Y	N	U		U	1.55	0.625	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-3A	L2112425-06	ETHYL ALCOHOL	3/19/2021	41.5	Y	Y				27.7	4.07	ug/m3
SV-3A	L2112425-06	ETHYLBENZENE	3/19/2021	11.9	Y	Y				2.55	0.552	ug/m3
SV-3A	L2112425-06	TERT-BUTYL ALCOHOL	3/19/2021	7.82	Y	Y				4.46	0.415	ug/m3
SV-3A	L2112425-06	TETRACHLOROETHENE	3/19/2021	460	Y	Y				3.99	1.31	ug/m3
SV-3A	L2112425-06	TOLUENE	3/19/2021	12	Y	Y				2.22	0.577	ug/m3
SV-3A	L2112425-06	TRICHLOROETHENE	3/19/2021	967	Y	Y				3.16	0.795	ug/m3
SV-3A	L2112425-06	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	4.34	0.493	ug/m3
SV-3A	L2112425-06	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	4.52	1.27	ug/m3
SV-3A	L2112425-06	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	3.04	0.735	ug/m3
SV-3A	L2112425-06	CHLOROBENZENE	3/19/2021		Y	N	U		U	2.71	0.847	ug/m3
SV-3A	L2112425-06	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	2.89	0.973	ug/m3
SV-3A	L2112425-06	1,3-BUTADIENE	3/19/2021		Y	N	U		U	1.3	0.436	ug/m3
SV-3A	L2112425-06	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	2.72	0.827	ug/m3
SV-3A	L2112425-06	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	2.67	0.545	ug/m3
SV-3A	L2112425-06	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	3.54	1.11	ug/m3
SV-3A	L2112425-06	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	5.01	1.53	ug/m3
SV-3A	L2112425-06	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	2.89	0.531	ug/m3
SV-3A	L2112425-06	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	4.36	1.47	ug/m3
SV-3A	L2112425-06	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	2.33	0.749	ug/m3
SV-3A	L2112425-06	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	2.33	0.749	ug/m3
SV-3A	L2112425-06	CYCLOHEXANE	3/19/2021		Y	N	U		U	2.02	0.372	ug/m3
SV-3A	L2112425-06	CHLOROMETHANE	3/19/2021		Y	N	U		U	1.21	0.419	ug/m3
SV-3A	L2112425-06	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	2.38	0.716	ug/m3
SV-3A	L2112425-06	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	6.02	0.508	ug/m3
SV-3A	L2112425-06	1,4-DIOXANE	3/19/2021		Y	N	U		U	2.12	0.854	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-3A	L2112425-06	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	3.94	0.992	ug/m3
SV-3A	L2112425-06	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	2.75	0.495	ug/m3
SV-3A	L2112425-06	BROMOFORM	3/19/2021		Y	N	U		U	6.08	1.94	ug/m3
SV-3A	L2112425-06	CARBON DISULFIDE	3/19/2021		Y	N	U		U	1.83	0.511	ug/m3
SV-3A	L2112425-06	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	3.54	1.12	ug/m3
SV-3A	L2112425-06	ACETONE	3/19/2021		Y	N	U		U	6.98	4.82	ug/m3
SV-3A	L2112425-06	BROMOMETHANE	3/19/2021		Y	N	U		U	2.28	0.881	ug/m3
SV-3A	L2112425-06	2-BUTANONE	3/19/2021		Y	N	U		U	4.34	0.419	ug/m3
SV-3A	L2112425-06	O-XYLENE	3/19/2021	11.2	Y	Y				2.55	0.578	ug/m3
SV-3A	L2112425-06	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	2.67	0.581	ug/m3
SV-3A	L2112425-06	2-HEXANONE	3/19/2021		Y	N	U		U	2.41	0.779	ug/m3
SV-3A	L2112425-06	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	1.84	0.538	ug/m3
SV-3A	L2112425-06	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	2.89	0.536	ug/m3
SV-3A	L2112425-06	BENZENE	3/19/2021		Y	N	U		U	1.88	0.457	ug/m3
SV-3A	L2112425-06	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	4.11	1.22	ug/m3
SV-3A	L2112425-06	P/M-XYLENE	3/19/2021	19.8	Y	Y				5.13	1.16	ug/m3
SV-3A	L2112425-06	STYRENE	3/19/2021		Y	N	U		U	2.5	0.545	ug/m3
SV-3A	L2112425-06	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	5.11	1.37	ug/m3
SV-3A	L2112425-06	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	2.12	0.555	ug/m3
SV-3A	L2112425-06	ISO-PROPYL ALCOHOL	3/19/2021		Y	N	U		U	3.61	3.44	ug/m3
SV-3A	L2112425-06	HEPTANE	3/19/2021		Y	N	U		U	2.41	0.566	ug/m3
SV-3A	L2112425-06	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	3.54	1.11	ug/m3
SV-3A	L2112425-06	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	4.51	1.48	ug/m3
SV-3A	L2112425-06	CARBON TETRACHLORIDE	3/19/2021		Y	N	U		U	3.7	0.925	ug/m3
SV-3A	L2112425-06	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	2.38	0.749	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-3A	L2112425-06	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	3.21	1.07	ug/m3
SV-3A	L2112425-06	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	4.04	1.24	ug/m3
SV-3A	L2112425-06	ETHYL ACETATE	3/19/2021		Y	N	U		U	5.3	1.29	ug/m3
SV-3A	L2112425-06	DICHLORODIFLUOROMETHANE	3/19/2021		Y	N	U		U	2.91	0.846	ug/m3
SV-3A	L2112425-06	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	6.27	1.66	ug/m3
SV-4	L2112425-07	BROMOMETHANE	3/20/2021		Y	N	U		U	0.777	0.3	ug/m3
SV-4	L2112425-07	CARBON DISULFIDE	3/20/2021		Y	N	U		U	0.623	0.174	ug/m3
SV-4	L2112425-07	CARBON TETRACHLORIDE	3/20/2021		Y	N	U		U	1.26	0.314	ug/m3
SV-4	L2112425-07	CHLOROBENZENE	3/20/2021		Y	N	U		U	0.921	0.287	ug/m3
SV-4	L2112425-07	CHLOROETHANE	3/20/2021		Y	N	U		U	0.528	0.212	ug/m3
SV-4	L2112425-07	CHLOROMETHANE	3/20/2021		Y	N	U		U	0.413	0.142	ug/m3
SV-4	L2112425-07	DIBROMOCHLOROMETHANE	3/20/2021		Y	N	U		U	1.7	0.523	ug/m3
SV-4	L2112425-07	BROMOFORM	3/20/2021		Y	N	U		U	2.07	0.663	ug/m3
SV-4	L2112425-07	METHYLENE CHLORIDE	3/20/2021		Y	N	U		U	1.74	0.466	ug/m3
SV-4	L2112425-07	ETHYL ACETATE	3/20/2021		Y	N	U		U	1.8	0.44	ug/m3
SV-4	L2112425-07	METHYL TERT BUTYL ETHER	3/20/2021		Y	N	U		U	0.721	0.189	ug/m3
SV-4	L2112425-07	1,3-BUTADIENE	3/20/2021		Y	N	U		U	0.442	0.148	ug/m3
SV-4	L2112425-07	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/20/2021		Y	N	U		U	1.53	0.503	ug/m3
SV-4	L2112425-07	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/20/2021		Y	N	U		U	1.4	0.413	ug/m3
SV-4	L2112425-07	HEPTANE	3/20/2021		Y	N	U		U	0.82	0.193	ug/m3
SV-4	L2112425-07	HEXACHLOROBUTADIENE	3/20/2021		Y	N	U		U	2.13	0.564	ug/m3
SV-4	L2112425-07	CYCLOHEXANE	3/20/2021		Y	N	U		U	0.688	0.127	ug/m3
SV-4	L2112425-07	1,2-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.244	ug/m3
SV-4	L2112425-07	CIS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.464	ug/m3
SV-4	L2112425-07	STYRENE	3/20/2021		Y	N	U		U	0.852	0.185	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-4	L2112425-07	1,1,1-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.273	ug/m3
SV-4	L2112425-07	1,1,2,2-TETRACHLOROETHANE	3/20/2021		Y	N	U		U	1.37	0.422	ug/m3
SV-4	L2112425-07	1,1,2-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.366	ug/m3
SV-4	L2112425-07	1,1-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.254	ug/m3
SV-4	L2112425-07	1,1-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-4	L2112425-07	1,2,4-TRICHLOROBENZENE	3/20/2021		Y	N	U		U	1.48	0.5	ug/m3
SV-4	L2112425-07	1,2,4-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.181	ug/m3
SV-4	L2112425-07	1,4-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.382	ug/m3
SV-4	L2112425-07	1,2-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.378	ug/m3
SV-4	L2112425-07	BROMODICHLOROMETHANE	3/20/2021		Y	N	U		U	1.34	0.338	ug/m3
SV-4	L2112425-07	1,2-DICHLOROPROPANE	3/20/2021		Y	N	U		U	0.924	0.282	ug/m3
SV-4	L2112425-07	1,3,5-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.332	ug/m3
SV-4	L2112425-07	1,3-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.377	ug/m3
SV-4	L2112425-07	1,4-DIOXANE	3/20/2021		Y	N	U		U	0.721	0.29	ug/m3
SV-4	L2112425-07	2,2,4-TRIMETHYLPENTANE	3/20/2021		Y	N	U		U	0.934	0.169	ug/m3
SV-4	L2112425-07	3-CHLOROPROPENE	3/20/2021		Y	N	U		U	0.626	0.183	ug/m3
SV-4	L2112425-07	4-ETHYLTOLUENE	3/20/2021		Y	N	U		U	0.983	0.182	ug/m3
SV-4	L2112425-07	4-METHYL-2-PENTANONE	3/20/2021		Y	N	U		U	2.05	0.173	ug/m3
SV-4	L2112425-07	BENZENE	3/20/2021		Y	N	U		U	0.639	0.156	ug/m3
SV-4	L2112425-07	BENZYL CHLORIDE	3/20/2021		Y	N	U		U	1.04	0.25	ug/m3
SV-4	L2112425-07	1,2-DIBROMOETHANE	3/20/2021		Y	N	U		U	1.54	0.431	ug/m3
SV-4	L2112425-07	2-BUTANONE	3/20/2021	3.66	Y	Y				1.47	0.142	ug/m3
SV-4	L2112425-07	O-XYLENE	3/20/2021	1.87	Y	Y				0.869	0.197	ug/m3
SV-4	L2112425-07	TOLUENE	3/20/2021	2.22	Y	Y				0.754	0.196	ug/m3
SV-4	L2112425-07	TETRACHLOROETHENE	3/20/2021	4.66	Y	Y				1.36	0.444	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-4	L2112425-07	TERT-BUTYL ALCOHOL	3/20/2021	2.37	Y	Y				1.52	0.141	ug/m3
SV-4	L2112425-07	ISO-PROPYL ALCOHOL	3/20/2021	10.3	Y	Y				1.23	1.17	ug/m3
SV-4	L2112425-07	ETHYLBENZENE	3/20/2021	1.99	Y	Y				0.869	0.188	ug/m3
SV-4	L2112425-07	ETHYL ALCOHOL	3/20/2021	46	Y	Y				9.42	1.38	ug/m3
SV-4	L2112425-07	DICHLORODIFLUOROMETHANE	3/20/2021	2.88	Y	Y				0.989	0.288	ug/m3
SV-4	L2112425-07	CHLOROFORM	3/20/2021	10.6	Y	Y				0.977	0.309	ug/m3
SV-4	L2112425-07	ACETONE	3/20/2021	9.17	Y	Y				2.38	1.64	ug/m3
SV-4	L2112425-07	TRICHLOROETHENE	3/20/2021	21	Y	Y				1.07	0.271	ug/m3
SV-4	L2112425-07	2-HEXANONE	3/20/2021	0.885	Y	Y				0.82	0.266	ug/m3
SV-4	L2112425-07	P/M-XYLENE	3/20/2021	3.53	Y	Y				1.74	0.395	ug/m3
SV-4	L2112425-07	VINYL BROMIDE	3/20/2021		Y	N	U		U	0.874	0.313	ug/m3
SV-4	L2112425-07	TETRAHYDROFURAN	3/20/2021		Y	N	U		U	1.47	0.168	ug/m3
SV-4	L2112425-07	TRANS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.198	ug/m3
SV-4	L2112425-07	TRANS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-4	L2112425-07	N-HEXANE	3/20/2021		Y	N	U		U	0.705	0.128	ug/m3
SV-4	L2112425-07	CIS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.186	ug/m3
SV-4	L2112425-07	VINYL CHLORIDE	3/20/2021		Y	N	U		U	0.511	0.16	ug/m3
SV-4	L2112425-07	TRICHLOROFLUOROMETHANE	3/20/2021		Y	N	U		U	1.12	0.386	ug/m3
SV-5A	L2112425-08	TRANS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-5A	L2112425-08	CIS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.186	ug/m3
SV-5A	L2112425-08	CIS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.464	ug/m3
SV-5A	L2112425-08	P/M-XYLENE	3/20/2021	21.6	Y	Y				1.74	0.395	ug/m3
SV-5A	L2112425-08	ETHYL ALCOHOL	3/20/2021	746	Y	Y				9.42	1.38	ug/m3
SV-5A	L2112425-08	TRICHLOROFLUOROMETHANE	3/20/2021	2.86	Y	Y				1.12	0.386	ug/m3
SV-5A	L2112425-08	TRICHLOROETHENE	3/20/2021	7.9	Y	Y				1.07	0.271	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-5A	L2112425-08	TOLUENE	3/20/2021	13.1	Y	Y				0.754	0.196	ug/m3
SV-5A	L2112425-08	TETRAHYDROFURAN	3/20/2021	3.33	Y	Y				1.47	0.168	ug/m3
SV-5A	L2112425-08	TETRACHLOROETHENE	3/20/2021	9.56	Y	Y				1.36	0.444	ug/m3
SV-5A	L2112425-08	TERT-BUTYL ALCOHOL	3/20/2021	11.7	Y	Y				1.52	0.141	ug/m3
SV-5A	L2112425-08	STYRENE	3/20/2021	1.09	Y	Y				0.852	0.185	ug/m3
SV-5A	L2112425-08	2-BUTANONE	3/20/2021	2.91	Y	Y				1.47	0.142	ug/m3
SV-5A	L2112425-08	ETHYLBENZENE	3/20/2021	13.1	Y	Y				0.869	0.188	ug/m3
SV-5A	L2112425-08	O-XYLENE	3/20/2021	12.5	Y	Y				0.869	0.197	ug/m3
SV-5A	L2112425-08	DICHLORODIFLUOROMETHANE	3/20/2021	1.95	Y	Y				0.989	0.288	ug/m3
SV-5A	L2112425-08	CYCLOHEXANE	3/20/2021	0.747	Y	Y				0.688	0.127	ug/m3
SV-5A	L2112425-08	CHLOROFORM	3/20/2021	2.13	Y	Y				0.977	0.309	ug/m3
SV-5A	L2112425-08	ACETONE	3/20/2021	55.8	Y	Y				2.38	1.64	ug/m3
SV-5A	L2112425-08	N-HEXANE	3/20/2021		Y	N	U		U	0.705	0.128	ug/m3
SV-5A	L2112425-08	2-HEXANONE	3/20/2021	1.62	Y	Y				0.82	0.266	ug/m3
SV-5A	L2112425-08	VINYL CHLORIDE	3/20/2021		Y	N	U		U	0.511	0.16	ug/m3
SV-5A	L2112425-08	ISO-PROPYL ALCOHOL	3/20/2021	42.3	Y	Y				1.23	1.17	ug/m3
SV-5A	L2112425-08	1,2-DICHLOROPROPANE	3/20/2021		Y	N	U		U	0.924	0.282	ug/m3
SV-5A	L2112425-08	1,1-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-5A	L2112425-08	1,2,4-TRICHLOROBENZENE	3/20/2021		Y	N	U		U	1.48	0.5	ug/m3
SV-5A	L2112425-08	1,2,4-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.181	ug/m3
SV-5A	L2112425-08	1,2-DIBROMOETHANE	3/20/2021		Y	N	U		U	1.54	0.431	ug/m3
SV-5A	L2112425-08	VINYL BROMIDE	3/20/2021		Y	N	U		U	0.874	0.313	ug/m3
SV-5A	L2112425-08	1,2-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.378	ug/m3
SV-5A	L2112425-08	TRANS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.198	ug/m3
SV-5A	L2112425-08	1,3-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.377	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-5A	L2112425-08	BENZENE	3/20/2021		Y	N	U		U	0.639	0.156	ug/m3
SV-5A	L2112425-08	BROMODICHLOROMETHANE	3/20/2021		Y	N	U		U	1.34	0.338	ug/m3
SV-5A	L2112425-08	1,3,5-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.332	ug/m3
SV-5A	L2112425-08	1,3-BUTADIENE	3/20/2021		Y	N	U		U	0.442	0.148	ug/m3
SV-5A	L2112425-08	4-METHYL-2-PENTANONE	3/20/2021		Y	N	U		U	2.05	0.173	ug/m3
SV-5A	L2112425-08	4-ETHYLTOLUENE	3/20/2021		Y	N	U		U	0.983	0.182	ug/m3
SV-5A	L2112425-08	3-CHLOROPROPENE	3/20/2021		Y	N	U		U	0.626	0.183	ug/m3
SV-5A	L2112425-08	2,2,4-TRIMETHYLPENTANE	3/20/2021		Y	N	U		U	0.934	0.169	ug/m3
SV-5A	L2112425-08	1,4-DIOXANE	3/20/2021		Y	N	U		U	0.721	0.29	ug/m3
SV-5A	L2112425-08	1,4-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.382	ug/m3
SV-5A	L2112425-08	1,2-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.244	ug/m3
SV-5A	L2112425-08	CHLOROMETHANE	3/20/2021		Y	N	U		U	0.413	0.142	ug/m3
SV-5A	L2112425-08	METHYLENE CHLORIDE	3/20/2021		Y	N	U		U	1.74	0.466	ug/m3
SV-5A	L2112425-08	METHYL TERT BUTYL ETHER	3/20/2021		Y	N	U		U	0.721	0.189	ug/m3
SV-5A	L2112425-08	HEXACHLOROBUTADIENE	3/20/2021		Y	N	U		U	2.13	0.564	ug/m3
SV-5A	L2112425-08	HEPTANE	3/20/2021		Y	N	U		U	0.82	0.193	ug/m3
SV-5A	L2112425-08	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/20/2021		Y	N	U		U	1.4	0.413	ug/m3
SV-5A	L2112425-08	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/20/2021		Y	N	U		U	1.53	0.503	ug/m3
SV-5A	L2112425-08	1,1,1-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.273	ug/m3
SV-5A	L2112425-08	1,1,2,2-TETRACHLOROETHANE	3/20/2021		Y	N	U		U	1.37	0.422	ug/m3
SV-5A	L2112425-08	1,1-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.254	ug/m3
SV-5A	L2112425-08	DIBROMOCHLOROMETHANE	3/20/2021		Y	N	U		U	1.7	0.523	ug/m3
SV-5A	L2112425-08	BENZYL CHLORIDE	3/20/2021		Y	N	U		U	1.04	0.25	ug/m3
SV-5A	L2112425-08	CHLOROETHANE	3/20/2021		Y	N	U		U	0.528	0.212	ug/m3
SV-5A	L2112425-08	CHLOROBENZENE	3/20/2021		Y	N	U		U	0.921	0.287	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-5A	L2112425-08	CARBON TETRACHLORIDE	3/20/2021		Y	N	U		U	1.26	0.314	ug/m3
SV-5A	L2112425-08	CARBON DISULFIDE	3/20/2021		Y	N	U		U	0.623	0.174	ug/m3
SV-5A	L2112425-08	BROMOMETHANE	3/20/2021		Y	N	U		U	0.777	0.3	ug/m3
SV-5A	L2112425-08	BROMOFORM	3/20/2021		Y	N	U		U	2.07	0.663	ug/m3
SV-5A	L2112425-08	1,1,2-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.366	ug/m3
SV-5A	L2112425-08	ETHYL ACETATE	3/20/2021		Y	N	U		U	1.8	0.44	ug/m3
SV-5B	L2112425-09	1,2-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.244	ug/m3
SV-5B	L2112425-09	1,4-DIOXANE	3/20/2021		Y	N	U		U	0.721	0.29	ug/m3
SV-5B	L2112425-09	1,4-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.382	ug/m3
SV-5B	L2112425-09	1,3-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.377	ug/m3
SV-5B	L2112425-09	1,3-BUTADIENE	3/20/2021		Y	N	U		U	0.442	0.148	ug/m3
SV-5B	L2112425-09	1,2-DICHLOROPROPANE	3/20/2021		Y	N	U		U	0.924	0.282	ug/m3
SV-5B	L2112425-09	1,2-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.378	ug/m3
SV-5B	L2112425-09	1,2-DIBROMOETHANE	3/20/2021		Y	N	U		U	1.54	0.431	ug/m3
SV-5B	L2112425-09	1,2,4-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.181	ug/m3
SV-5B	L2112425-09	1,2,4-TRICHLOROBENZENE	3/20/2021		Y	N	U		U	1.48	0.5	ug/m3
SV-5B	L2112425-09	1,1-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-5B	L2112425-09	1,1-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.254	ug/m3
SV-5B	L2112425-09	1,1,2,2-TETRACHLOROETHANE	3/20/2021		Y	N	U		U	1.37	0.422	ug/m3
SV-5B	L2112425-09	1,1,1-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.273	ug/m3
SV-5B	L2112425-09	1,3,5-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.332	ug/m3
SV-5B	L2112425-09	HEPTANE	3/20/2021		Y	N	U		U	0.82	0.193	ug/m3
SV-5B	L2112425-09	4-ETHYLTOLUENE	3/20/2021		Y	N	U		U	0.983	0.182	ug/m3
SV-5B	L2112425-09	4-METHYL-2-PENTANONE	3/20/2021		Y	N	U		U	2.05	0.173	ug/m3
SV-5B	L2112425-09	BENZENE	3/20/2021		Y	N	U		U	0.639	0.156	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-5B	L2112425-09	BENZYL CHLORIDE	3/20/2021		Y	N	U		U	1.04	0.25	ug/m3
SV-5B	L2112425-09	BROMODICHLOROMETHANE	3/20/2021		Y	N	U		U	1.34	0.338	ug/m3
SV-5B	L2112425-09	BROMOFORM	3/20/2021		Y	N	U		U	2.07	0.663	ug/m3
SV-5B	L2112425-09	BROMOMETHANE	3/20/2021		Y	N	U		U	0.777	0.3	ug/m3
SV-5B	L2112425-09	CARBON DISULFIDE	3/20/2021		Y	N	U		U	0.623	0.174	ug/m3
SV-5B	L2112425-09	CHLOROBENZENE	3/20/2021		Y	N	U		U	0.921	0.287	ug/m3
SV-5B	L2112425-09	CHLOROETHANE	3/20/2021		Y	N	U		U	0.528	0.212	ug/m3
SV-5B	L2112425-09	CHLOROMETHANE	3/20/2021		Y	N	U		U	0.413	0.142	ug/m3
SV-5B	L2112425-09	3-CHLOROPROPENE	3/20/2021		Y	N	U		U	0.626	0.183	ug/m3
SV-5B	L2112425-09	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/20/2021		Y	N	U		U	1.4	0.413	ug/m3
SV-5B	L2112425-09	DIBROMOCHLOROMETHANE	3/20/2021		Y	N	U		U	1.7	0.523	ug/m3
SV-5B	L2112425-09	HEXACHLOROBUTADIENE	3/20/2021		Y	N	U		U	2.13	0.564	ug/m3
SV-5B	L2112425-09	METHYL TERT BUTYL ETHER	3/20/2021		Y	N	U		U	0.721	0.189	ug/m3
SV-5B	L2112425-09	METHYLENE CHLORIDE	3/20/2021		Y	N	U		U	1.74	0.466	ug/m3
SV-5B	L2112425-09	TRANS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.198	ug/m3
SV-5B	L2112425-09	TRANS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-5B	L2112425-09	N-HEXANE	3/20/2021		Y	N	U		U	0.705	0.128	ug/m3
SV-5B	L2112425-09	CIS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.186	ug/m3
SV-5B	L2112425-09	CIS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.464	ug/m3
SV-5B	L2112425-09	VINYL CHLORIDE	3/20/2021		Y	N	U		U	0.511	0.16	ug/m3
SV-5B	L2112425-09	VINYL BROMIDE	3/20/2021		Y	N	U		U	0.874	0.313	ug/m3
SV-5B	L2112425-09	TETRAHYDROFURAN	3/20/2021		Y	N	U		U	1.47	0.168	ug/m3
SV-5B	L2112425-09	ETHYL ACETATE	3/20/2021		Y	N	U		U	1.8	0.44	ug/m3
SV-5B	L2112425-09	ETHYL ALCOHOL	3/20/2021	28.6	Y	Y				9.42	1.38	ug/m3
SV-5B	L2112425-09	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/20/2021		Y	N	U		U	1.53	0.503	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-5B	L2112425-09	2,2,4-TRIMETHYLPENTANE	3/20/2021		Y	N	U		U	0.934	0.169	ug/m3
SV-5B	L2112425-09	ISO-PROPYL ALCOHOL	3/20/2021	3.98	Y	Y				1.23	1.17	ug/m3
SV-5B	L2112425-09	STYRENE	3/20/2021	1.41	Y	Y				0.852	0.185	ug/m3
SV-5B	L2112425-09	TETRACHLOROETHENE	3/20/2021	59.8	Y	Y				1.36	0.444	ug/m3
SV-5B	L2112425-09	ETHYLBENZENE	3/20/2021	15.8	Y	Y				0.869	0.188	ug/m3
SV-5B	L2112425-09	TOLUENE	3/20/2021	14.9	Y	Y				0.754	0.196	ug/m3
SV-5B	L2112425-09	DICHLORODIFLUOROMETHANE	3/20/2021	2.05	Y	Y				0.989	0.288	ug/m3
SV-5B	L2112425-09	TRICHLOROETHENE	3/20/2021	5.7	Y	Y				1.07	0.271	ug/m3
SV-5B	L2112425-09	TRICHLOROFLUOROMETHANE	3/20/2021	1.83	Y	Y				1.12	0.386	ug/m3
SV-5B	L2112425-09	2-BUTANONE	3/20/2021	1.89	Y	Y				1.47	0.142	ug/m3
SV-5B	L2112425-09	P/M-XYLENE	3/20/2021	26.4	Y	Y				1.74	0.395	ug/m3
SV-5B	L2112425-09	CYCLOHEXANE	3/20/2021	0.826	Y	Y				0.688	0.127	ug/m3
SV-5B	L2112425-09	CHLOROFORM	3/20/2021	38.7	Y	Y				0.977	0.309	ug/m3
SV-5B	L2112425-09	CARBON TETRACHLORIDE	3/20/2021	2.68	Y	Y				1.26	0.314	ug/m3
SV-5B	L2112425-09	ACETONE	3/20/2021	12.6	Y	Y				2.38	1.64	ug/m3
SV-5B	L2112425-09	2-HEXANONE	3/20/2021	4.75	Y	Y				0.82	0.266	ug/m3
SV-5B	L2112425-09	1,1,2-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.366	ug/m3
SV-5B	L2112425-09	O-XYLENE	3/20/2021	14.9	Y	Y				0.869	0.197	ug/m3
SV-5B	L2112425-09	TERT-BUTYL ALCOHOL	3/20/2021	17.6	Y	Y				1.52	0.141	ug/m3
SV-DUP-	L2112425-10	1,2-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.378	ug/m3
SV-DUP-	L2112425-10	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/20/2021		Y	N	U		U	1.53	0.503	ug/m3
SV-DUP-	L2112425-10	1,2-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.244	ug/m3
SV-DUP-	L2112425-10	1,3,5-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.332	ug/m3
SV-DUP-	L2112425-10	1,1,2,2-TETRACHLOROETHANE	3/20/2021		Y	N	U		U	1.37	0.422	ug/m3
SV-DUP-	L2112425-10	1,2-DICHLOROPROPANE	3/20/2021		Y	N	U		U	0.924	0.282	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-DUP-	L2112425-10	1,2-DIBROMOETHANE	3/20/2021		Y	N	U		U	1.54	0.431	ug/m3
SV-DUP-	L2112425-10	1,2,4-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.181	ug/m3
SV-DUP-	L2112425-10	1,2,4-TRICHLOROBENZENE	3/20/2021		Y	N	U		U	1.48	0.5	ug/m3
SV-DUP-	L2112425-10	1,1,2-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.366	ug/m3
SV-DUP-	L2112425-10	ETHYLBENZENE	3/20/2021		Y	N	U		U	0.869	0.188	ug/m3
SV-DUP-	L2112425-10	1,3-BUTADIENE	3/20/2021		Y	N	U		U	0.442	0.148	ug/m3
SV-DUP-	L2112425-10	1,1-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-DUP-	L2112425-10	BROMOMETHANE	3/20/2021		Y	N	U		U	0.777	0.3	ug/m3
SV-DUP-	L2112425-10	CHLOROBENZENE	3/20/2021		Y	N	U		U	0.921	0.287	ug/m3
SV-DUP-	L2112425-10	CHLOROETHANE	3/20/2021		Y	N	U		U	0.528	0.212	ug/m3
SV-DUP-	L2112425-10	CHLOROMETHANE	3/20/2021		Y	N	U		U	0.413	0.142	ug/m3
SV-DUP-	L2112425-10	CYCLOHEXANE	3/20/2021		Y	N	U		U	0.688	0.127	ug/m3
SV-DUP-	L2112425-10	ACETONE	3/20/2021	285	Y	Y				2.38	1.64	ug/m3
SV-DUP-	L2112425-10	2-BUTANONE	3/20/2021	4.1	Y	Y				1.47	0.142	ug/m3
SV-DUP-	L2112425-10	1,1-DICHLOROETHANE	3/20/2021	1.43	Y	Y				0.809	0.254	ug/m3
SV-DUP-	L2112425-10	1,1,1-TRICHLOROETHANE	3/20/2021	4.68	Y	Y				1.09	0.273	ug/m3
SV-DUP-	L2112425-10	N-HEXANE	3/20/2021		Y	N	U		U	0.705	0.128	ug/m3
SV-DUP-	L2112425-10	3-CHLOROPROPENE	3/20/2021		Y	N	U		U	0.626	0.183	ug/m3
SV-DUP-	L2112425-10	CARBON TETRACHLORIDE	3/20/2021		Y	N	U		U	1.26	0.314	ug/m3
SV-DUP-	L2112425-10	1,3-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.377	ug/m3
SV-DUP-	L2112425-10	BROMOFORM	3/20/2021		Y	N	U		U	2.07	0.663	ug/m3
SV-DUP-	L2112425-10	BROMODICHLOROMETHANE	3/20/2021		Y	N	U		U	1.34	0.338	ug/m3
SV-DUP-	L2112425-10	BENZYL CHLORIDE	3/20/2021		Y	N	U		U	1.04	0.25	ug/m3
SV-DUP-	L2112425-10	4-METHYL-2-PENTANONE	3/20/2021		Y	N	U		U	2.05	0.173	ug/m3
SV-DUP-	L2112425-10	4-ETHYLTOLUENE	3/20/2021		Y	N	U		U	0.983	0.182	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-DUP-	L2112425-10	2-HEXANONE	3/20/2021		Y	N	U		U	0.82	0.266	ug/m3
SV-DUP-	L2112425-10	2,2,4-TRIMETHYLPENTANE	3/20/2021		Y	N	U		U	0.934	0.169	ug/m3
SV-DUP-	L2112425-10	1,4-DIOXANE	3/20/2021		Y	N	U		U	0.721	0.29	ug/m3
SV-DUP-	L2112425-10	1,4-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.382	ug/m3
SV-DUP-	L2112425-10	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/20/2021		Y	N	U		U	1.4	0.413	ug/m3
SV-DUP-	L2112425-10	O-XYLENE	3/20/2021		Y	N	U		U	0.869	0.197	ug/m3
SV-DUP-	L2112425-10	TOLUENE	3/20/2021	1.99	Y	Y				0.754	0.196	ug/m3
SV-DUP-	L2112425-10	TRICHLOROETHENE	3/20/2021	90.8	Y	Y				1.07	0.271	ug/m3
SV-DUP-	L2112425-10	CIS-1,2-DICHLOROETHENE	3/20/2021	2.56	Y	Y				0.793	0.464	ug/m3
SV-DUP-	L2112425-10	TERT-BUTYL ALCOHOL	3/20/2021	1.54	Y	Y				1.52	0.141	ug/m3
SV-DUP-	L2112425-10	DIBROMOCHLOROMETHANE	3/20/2021		Y	N	U		U	1.7	0.523	ug/m3
SV-DUP-	L2112425-10	HEPTANE	3/20/2021		Y	N	U		U	0.82	0.193	ug/m3
SV-DUP-	L2112425-10	CARBON DISULFIDE	3/20/2021	1.25	Y	Y				0.623	0.174	ug/m3
SV-DUP-	L2112425-10	ISO-PROPYL ALCOHOL	3/20/2021	15.5	Y	Y				1.23	1.17	ug/m3
SV-DUP-	L2112425-10	VINYL CHLORIDE	3/20/2021		Y	N	U		U	0.511	0.16	ug/m3
SV-DUP-	L2112425-10	TRANS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.198	ug/m3
SV-DUP-	L2112425-10	TETRACHLOROETHENE	3/20/2021	38	Y	Y				1.36	0.444	ug/m3
SV-DUP-	L2112425-10	P/M-XYLENE	3/20/2021		Y	N	U		U	1.74	0.395	ug/m3
SV-DUP-	L2112425-10	TETRAHYDROFURAN	3/20/2021		Y	N	U		U	1.47	0.168	ug/m3
SV-DUP-	L2112425-10	HEXACHLOROBUTADIENE	3/20/2021		Y	N	U		U	2.13	0.564	ug/m3
SV-DUP-	L2112425-10	METHYL TERT BUTYL ETHER	3/20/2021		Y	N	U		U	0.721	0.189	ug/m3
SV-DUP-	L2112425-10	METHYLENE CHLORIDE	3/20/2021		Y	N	U		U	1.74	0.466	ug/m3
SV-DUP-	L2112425-10	CHLOROFORM	3/20/2021	1.99	Y	Y				0.977	0.309	ug/m3
SV-DUP-	L2112425-10	DICHLORODIFLUOROMETHANE	3/20/2021	1.99	Y	Y				0.989	0.288	ug/m3
SV-DUP-	L2112425-10	TRANS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-DUP-	L2112425-10	STYRENE	3/20/2021		Y	N	U		U	0.852	0.185	ug/m3
SV-DUP-	L2112425-10	ETHYL ACETATE	3/20/2021		Y	N	U		U	1.8	0.44	ug/m3
SV-DUP-	L2112425-10	TRICHLOROFLUOROMETHANE	3/20/2021		Y	N	U		U	1.12	0.386	ug/m3
SV-DUP-	L2112425-10	VINYL BROMIDE	3/20/2021		Y	N	U		U	0.874	0.313	ug/m3
SV-DUP-	L2112425-10	BENZENE	3/20/2021	0.677	Y	Y				0.639	0.156	ug/m3
SV-DUP-	L2112425-10	CIS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.186	ug/m3
SV-DUP-	L2112425-10	ETHYL ALCOHOL	3/20/2021	129	Y	Y				9.42	1.38	ug/m3
SV-DUP-	L2112425-11	TRANS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-DUP-	L2112425-11	TRANS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.198	ug/m3
SV-DUP-	L2112425-11	TETRAHYDROFURAN	3/20/2021		Y	N	U		U	1.47	0.168	ug/m3
SV-DUP-	L2112425-11	HEPTANE	3/20/2021		Y	N	U		U	0.82	0.193	ug/m3
SV-DUP-	L2112425-11	HEXACHLOROBUTADIENE	3/20/2021		Y	N	U		U	2.13	0.564	ug/m3
SV-DUP-	L2112425-11	METHYL TERT BUTYL ETHER	3/20/2021		Y	N	U		U	0.721	0.189	ug/m3
SV-DUP-	L2112425-11	STYRENE	3/20/2021		Y	N	U		U	0.852	0.185	ug/m3
SV-DUP-	L2112425-11	CHLOROBENZENE	3/20/2021		Y	N	U		U	0.921	0.287	ug/m3
SV-DUP-	L2112425-11	TRICHLOROFLUOROMETHANE	3/20/2021		Y	N	U		U	1.12	0.386	ug/m3
SV-DUP-	L2112425-11	VINYL BROMIDE	3/20/2021		Y	N	U		U	0.874	0.313	ug/m3
SV-DUP-	L2112425-11	N-HEXANE	3/20/2021		Y	N	U		U	0.705	0.128	ug/m3
SV-DUP-	L2112425-11	CIS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.186	ug/m3
SV-DUP-	L2112425-11	CIS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.464	ug/m3
SV-DUP-	L2112425-11	METHYLENE CHLORIDE	3/20/2021		Y	N	U		U	1.74	0.466	ug/m3
SV-DUP-	L2112425-11	BENZYL CHLORIDE	3/20/2021		Y	N	U		U	1.04	0.25	ug/m3
SV-DUP-	L2112425-11	1,3-BUTADIENE	3/20/2021		Y	N	U		U	0.442	0.148	ug/m3
SV-DUP-	L2112425-11	1,2-DICHLOROPROPANE	3/20/2021		Y	N	U		U	0.924	0.282	ug/m3
SV-DUP-	L2112425-11	1,2-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.244	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-DUP-	L2112425-11	VINYL CHLORIDE	3/20/2021		Y	N	U		U	0.511	0.16	ug/m3
SV-DUP-	L2112425-11	1,3-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.377	ug/m3
SV-DUP-	L2112425-11	1,4-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.382	ug/m3
SV-DUP-	L2112425-11	1,4-DIOXANE	3/20/2021		Y	N	U		U	0.721	0.29	ug/m3
SV-DUP-	L2112425-11	2,2,4-TRIMETHYLPENTANE	3/20/2021		Y	N	U		U	0.934	0.169	ug/m3
SV-DUP-	L2112425-11	3-CHLOROPROPENE	3/20/2021		Y	N	U		U	0.626	0.183	ug/m3
SV-DUP-	L2112425-11	4-ETHYLTOLUENE	3/20/2021		Y	N	U		U	0.983	0.182	ug/m3
SV-DUP-	L2112425-11	CYCLOHEXANE	3/20/2021		Y	N	U		U	0.688	0.127	ug/m3
SV-DUP-	L2112425-11	BENZENE	3/20/2021		Y	N	U		U	0.639	0.156	ug/m3
SV-DUP-	L2112425-11	ETHYLBENZENE	3/20/2021	3.43	Y	Y				0.869	0.188	ug/m3
SV-DUP-	L2112425-11	BROMODICHLOROMETHANE	3/20/2021		Y	N	U		U	1.34	0.338	ug/m3
SV-DUP-	L2112425-11	BROMOFORM	3/20/2021		Y	N	U		U	2.07	0.663	ug/m3
SV-DUP-	L2112425-11	BROMOMETHANE	3/20/2021		Y	N	U		U	0.777	0.3	ug/m3
SV-DUP-	L2112425-11	CARBON DISULFIDE	3/20/2021		Y	N	U		U	0.623	0.174	ug/m3
SV-DUP-	L2112425-11	CARBON TETRACHLORIDE	3/20/2021		Y	N	U		U	1.26	0.314	ug/m3
SV-DUP-	L2112425-11	CHLOROETHANE	3/20/2021		Y	N	U		U	0.528	0.212	ug/m3
SV-DUP-	L2112425-11	DIBROMOCHLOROMETHANE	3/20/2021		Y	N	U		U	1.7	0.523	ug/m3
SV-DUP-	L2112425-11	ETHYL ACETATE	3/20/2021		Y	N	U		U	1.8	0.44	ug/m3
SV-DUP-	L2112425-11	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/20/2021		Y	N	U		U	1.53	0.503	ug/m3
SV-DUP-	L2112425-11	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/20/2021		Y	N	U		U	1.4	0.413	ug/m3
SV-DUP-	L2112425-11	4-METHYL-2-PENTANONE	3/20/2021		Y	N	U		U	2.05	0.173	ug/m3
SV-DUP-	L2112425-11	2-BUTANONE	3/20/2021	5.13	Y	Y				1.47	0.142	ug/m3
SV-DUP-	L2112425-11	1,1,2,2-TETRACHLOROETHANE	3/20/2021		Y	N	U		U	1.37	0.422	ug/m3
SV-DUP-	L2112425-11	ISO-PROPYL ALCOHOL	3/20/2021	24.2	Y	Y				1.23	1.17	ug/m3
SV-DUP-	L2112425-11	1,1-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.254	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
SV-DUP-	L2112425-11	1,2,4-TRICHLOROBENZENE	3/20/2021		Y	N	U		U	1.48	0.5	ug/m3
SV-DUP-	L2112425-11	1,2-DIBROMOETHANE	3/20/2021		Y	N	U		U	1.54	0.431	ug/m3
SV-DUP-	L2112425-11	1,2-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.378	ug/m3
SV-DUP-	L2112425-11	1,1,1-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.273	ug/m3
SV-DUP-	L2112425-11	1,3,5-TRIMETHYLBENZENE	3/20/2021	1.71	Y	Y				0.983	0.332	ug/m3
SV-DUP-	L2112425-11	1,1,2-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.366	ug/m3
SV-DUP-	L2112425-11	2-HEXANONE	3/20/2021	1.52	Y	Y				0.82	0.266	ug/m3
SV-DUP-	L2112425-11	ACETONE	3/20/2021	14.2	Y	Y				2.38	1.64	ug/m3
SV-DUP-	L2112425-11	CHLOROFORM	3/20/2021	3.14	Y	Y				0.977	0.309	ug/m3
SV-DUP-	L2112425-11	CHLOROMETHANE	3/20/2021	0.77	Y	Y				0.413	0.142	ug/m3
SV-DUP-	L2112425-11	DICHLORODIFLUOROMETHANE	3/20/2021	2.49	Y	Y				0.989	0.288	ug/m3
SV-DUP-	L2112425-11	ETHYL ALCOHOL	3/20/2021	79.1	Y	Y				9.42	1.38	ug/m3
SV-DUP-	L2112425-11	1,2,4-TRIMETHYLBENZENE	3/20/2021	1.68	Y	Y				0.983	0.181	ug/m3
SV-DUP-	L2112425-11	TRICHLOROETHENE	3/20/2021	16.3	Y	Y				1.07	0.271	ug/m3
SV-DUP-	L2112425-11	1,1-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
SV-DUP-	L2112425-11	O-XYLENE	3/20/2021	2.91	Y	Y				0.869	0.197	ug/m3
SV-DUP-	L2112425-11	TOLUENE	3/20/2021	3.84	Y	Y				0.754	0.196	ug/m3
SV-DUP-	L2112425-11	TETRACHLOROETHENE	3/20/2021	5.66	Y	Y				1.36	0.444	ug/m3
SV-DUP-	L2112425-11	TERT-BUTYL ALCOHOL	3/20/2021	5.4	Y	Y				1.52	0.141	ug/m3
SV-DUP-	L2112425-11	P/M-XYLENE	3/20/2021	6.21	Y	Y				1.74	0.395	ug/m3
IA-1	L2112425-12	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	2.13	0.564	ug/m3
IA-1	L2112425-12	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-1	L2112425-12	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-1	L2112425-12	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-1	L2112425-12	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-1	L2112425-12	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-1	L2112425-12	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-1	L2112425-12	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-1	L2112425-12	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-1	L2112425-12	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
IA-1	L2112425-12	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-1	L2112425-12	P/M-XYLENE	3/19/2021		Y	N	U		U	1.74	0.395	ug/m3
IA-1	L2112425-12	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-1	L2112425-12	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-1	L2112425-12	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-1	L2112425-12	HEPTANE	3/19/2021		Y	N	U		U	0.82	0.193	ug/m3
IA-1	L2112425-12	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
IA-1	L2112425-12	N-HEXANE	3/19/2021		Y	N	U		U	0.705	0.128	ug/m3
IA-1	L2112425-12	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-1	L2112425-12	ACETONE	3/19/2021		Y	N	U		U	2.38	1.64	ug/m3
IA-1	L2112425-12	DICHLORODIFLUOROMETHANE	3/19/2021	1.99	Y	Y				0.989	0.288	ug/m3
IA-1	L2112425-12	CHLOROMETHANE	3/19/2021	0.888	Y	Y				0.413	0.142	ug/m3
IA-1	L2112425-12	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-1	L2112425-12	BENZENE	3/19/2021	0.879	Y	Y				0.639	0.156	ug/m3
IA-1	L2112425-12	ETHYL ACETATE	3/19/2021		Y	N	U		U	1.8	0.44	ug/m3
IA-1	L2112425-12	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-1	L2112425-12	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-1	L2112425-12	TRICHLOROFLUOROMETHANE	3/19/2021		Y	N	U		U	1.12	0.386	ug/m3
IA-1	L2112425-12	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-1	L2112425-12	2-BUTANONE	3/19/2021		Y	N	U		U	1.47	0.142	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-1	L2112425-12	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-1	L2112425-12	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-1	L2112425-12	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-1	L2112425-12	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-1	L2112425-12	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-1	L2112425-12	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-1	L2112425-12	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-1	L2112425-12	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-1	L2112425-12	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-1	L2112425-12	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-1	L2112425-12	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-1	L2112425-12	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	1.48	0.5	ug/m3
IA-1	L2112425-12	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
IA-1	L2112425-12	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-1	L2112425-12	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-1	L2112425-12	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-1	L2112425-12	ETHYL ALCOHOL	3/19/2021	28.6	Y	Y				9.42	1.38	ug/m3
IA-1	L2112425-12	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-1	L2112425-12	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-1	L2112425-12	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-1	L2112425-12	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-1	L2112425-12	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-1	L2112425-12	TOLUENE	3/19/2021	2.09	Y	Y				0.754	0.196	ug/m3
IA-1	L2112425-12	ISO-PROPYL ALCOHOL	3/19/2021	3.37	Y	Y				1.23	1.17	ug/m3
IA-1	L2112425-12	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-1	L2112425-12	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-2	L2112425-13	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-2	L2112425-13	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-2	L2112425-13	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-2	L2112425-13	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-2	L2112425-13	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-2	L2112425-13	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-2	L2112425-13	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-2	L2112425-13	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-2	L2112425-13	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-2	L2112425-13	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-2	L2112425-13	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-2	L2112425-13	ETHYL ACETATE	3/19/2021		Y	N	U		U	1.8	0.44	ug/m3
IA-2	L2112425-13	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-2	L2112425-13	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-2	L2112425-13	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-2	L2112425-13	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-2	L2112425-13	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-2	L2112425-13	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-2	L2112425-13	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-2	L2112425-13	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-2	L2112425-13	2-BUTANONE	3/19/2021		Y	N	U		U	1.47	0.142	ug/m3
IA-2	L2112425-13	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-2	L2112425-13	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
IA-2	L2112425-13	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	1.48	0.5	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-2	L2112425-13	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-2	L2112425-13	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-2	L2112425-13	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-2	L2112425-13	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-2	L2112425-13	HEPTANE	3/19/2021		Y	N	U		U	0.82	0.193	ug/m3
IA-2	L2112425-13	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	2.13	0.564	ug/m3
IA-2	L2112425-13	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-2	L2112425-13	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-2	L2112425-13	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-2	L2112425-13	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-2	L2112425-13	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-2	L2112425-13	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-2	L2112425-13	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-2	L2112425-13	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-2	L2112425-13	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-2	L2112425-13	TOLUENE	3/19/2021	2.36	Y	Y				0.754	0.196	ug/m3
IA-2	L2112425-13	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-2	L2112425-13	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-2	L2112425-13	P/M-XYLENE	3/19/2021	4.6	Y	Y				1.74	0.395	ug/m3
IA-2	L2112425-13	O-XYLENE	3/19/2021	1.32	Y	Y				0.869	0.197	ug/m3
IA-2	L2112425-13	TRICHLOROFLUOROMETHANE	3/19/2021	1.26	Y	Y				1.12	0.386	ug/m3
IA-2	L2112425-13	ISO-PROPYL ALCOHOL	3/19/2021	6.02	Y	Y				1.23	1.17	ug/m3
IA-2	L2112425-13	ETHYLBENZENE	3/19/2021	1.23	Y	Y				0.869	0.188	ug/m3
IA-2	L2112425-13	ETHYL ALCOHOL	3/19/2021	447	Y	Y				9.42	1.38	ug/m3
IA-2	L2112425-13	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-2	L2112425-13	CHLOROMETHANE	3/19/2021	0.964	Y	Y				0.413	0.142	ug/m3
IA-2	L2112425-13	BENZENE	3/19/2021	1.04	Y	Y				0.639	0.156	ug/m3
IA-2	L2112425-13	ACETONE	3/19/2021	47	Y	Y				2.38	1.64	ug/m3
IA-2	L2112425-13	1,2,4-TRIMETHYLBENZENE	3/19/2021	1.25	Y	Y				0.983	0.181	ug/m3
IA-2	L2112425-13	DICHLORODIFLUOROMETHANE	3/19/2021	2.08	Y	Y				0.989	0.288	ug/m3
IA-2	L2112425-13	N-HEXANE	3/19/2021	0.73	Y	Y				0.705	0.128	ug/m3
IA-2	L2112425-13	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-3	L2112425-14	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	1.48	0.5	ug/m3
IA-3	L2112425-14	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-3	L2112425-14	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-3	L2112425-14	P/M-XYLENE	3/19/2021	1.91	Y	Y				1.74	0.395	ug/m3
IA-3	L2112425-14	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-3	L2112425-14	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-3	L2112425-14	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-3	L2112425-14	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-3	L2112425-14	BENZENE	3/19/2021	1.16	Y	Y				0.639	0.156	ug/m3
IA-3	L2112425-14	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-3	L2112425-14	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-3	L2112425-14	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-3	L2112425-14	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-3	L2112425-14	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-3	L2112425-14	TRICHLOROFLUOROMETHANE	3/19/2021	1.29	Y	Y				1.12	0.386	ug/m3
IA-3	L2112425-14	TOLUENE	3/19/2021	2.08	Y	Y				0.754	0.196	ug/m3
IA-3	L2112425-14	ISO-PROPYL ALCOHOL	3/19/2021	6.22	Y	Y				1.23	1.17	ug/m3
IA-3	L2112425-14	ETHYL ALCOHOL	3/19/2021	203	Y	Y				9.42	1.38	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-3	L2112425-14	DICHLORODIFLUOROMETHANE	3/19/2021	2.13	Y	Y				0.989	0.288	ug/m3
IA-3	L2112425-14	CHLOROFORM	3/19/2021	2.08	Y	Y				0.977	0.309	ug/m3
IA-3	L2112425-14	ACETONE	3/19/2021	18.2	Y	Y				2.38	1.64	ug/m3
IA-3	L2112425-14	1,2,4-TRIMETHYLBENZENE	3/19/2021	1.64	Y	Y				0.983	0.181	ug/m3
IA-3	L2112425-14	2-BUTANONE	3/19/2021		Y	N	U		U	1.47	0.142	ug/m3
IA-3	L2112425-14	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-3	L2112425-14	CHLOROMETHANE	3/19/2021	0.989	Y	Y				0.413	0.142	ug/m3
IA-3	L2112425-14	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-3	L2112425-14	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-3	L2112425-14	HEPTANE	3/19/2021		Y	N	U		U	0.82	0.193	ug/m3
IA-3	L2112425-14	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	2.13	0.564	ug/m3
IA-3	L2112425-14	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-3	L2112425-14	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-3	L2112425-14	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-3	L2112425-14	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-3	L2112425-14	N-HEXANE	3/19/2021		Y	N	U		U	0.705	0.128	ug/m3
IA-3	L2112425-14	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-3	L2112425-14	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-3	L2112425-14	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
IA-3	L2112425-14	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-3	L2112425-14	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-3	L2112425-14	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-3	L2112425-14	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-3	L2112425-14	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-3	L2112425-14	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-3	L2112425-14	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-3	L2112425-14	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-3	L2112425-14	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-3	L2112425-14	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-3	L2112425-14	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-3	L2112425-14	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-3	L2112425-14	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-3	L2112425-14	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-3	L2112425-14	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-3	L2112425-14	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-3	L2112425-14	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-3	L2112425-14	ETHYL ACETATE	3/19/2021		Y	N	U		U	1.8	0.44	ug/m3
IA-3	L2112425-14	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-4A	L2112425-15	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-4A	L2112425-15	2-BUTANONE	3/19/2021	1.54	Y	Y				1.47	0.142	ug/m3
IA-4A	L2112425-15	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-4A	L2112425-15	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
IA-4A	L2112425-15	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-4A	L2112425-15	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-4A	L2112425-15	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-4A	L2112425-15	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	2.13	0.564	ug/m3
IA-4A	L2112425-15	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-4A	L2112425-15	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-4A	L2112425-15	ETHYL ACETATE	3/19/2021	2.64	Y	Y				1.8	0.44	ug/m3
IA-4A	L2112425-15	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4A	L2112425-15	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-4A	L2112425-15	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-4A	L2112425-15	ACETONE	3/19/2021	36.3	Y	Y				2.38	1.64	ug/m3
IA-4A	L2112425-15	BENZENE	3/19/2021	1.09	Y	Y				0.639	0.156	ug/m3
IA-4A	L2112425-15	CHLOROMETHANE	3/19/2021	1.1	Y	Y				0.413	0.142	ug/m3
IA-4A	L2112425-15	CYCLOHEXANE	3/19/2021	1.94	Y	Y				0.688	0.127	ug/m3
IA-4A	L2112425-15	ETHYL ALCOHOL	3/19/2021	889	Y	Y				9.42	1.38	ug/m3
IA-4A	L2112425-15	HEPTANE	3/19/2021	35.1	Y	Y				0.82	0.193	ug/m3
IA-4A	L2112425-15	ISO-PROPYL ALCOHOL	3/19/2021	230	Y	Y				1.23	1.17	ug/m3
IA-4A	L2112425-15	TOLUENE	3/19/2021	5.31	Y	Y				0.754	0.196	ug/m3
IA-4A	L2112425-15	TRICHLOROFLUOROMETHANE	3/19/2021	1.27	Y	Y				1.12	0.386	ug/m3
IA-4A	L2112425-15	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-4A	L2112425-15	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-4A	L2112425-15	P/M-XYLENE	3/19/2021	1.92	Y	Y				1.74	0.395	ug/m3
IA-4A	L2112425-15	N-HEXANE	3/19/2021	0.871	Y	Y				0.705	0.128	ug/m3
IA-4A	L2112425-15	DICHLORODIFLUOROMETHANE	3/19/2021	2.02	Y	Y				0.989	0.288	ug/m3
IA-4A	L2112425-15	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-4A	L2112425-15	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-4A	L2112425-15	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-4A	L2112425-15	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-4A	L2112425-15	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-4A	L2112425-15	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-4A	L2112425-15	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	1.48	0.5	ug/m3
IA-4A	L2112425-15	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
IA-4A	L2112425-15	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4A	L2112425-15	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-4A	L2112425-15	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-4A	L2112425-15	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-4A	L2112425-15	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-4A	L2112425-15	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-4A	L2112425-15	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
IA-4A	L2112425-15	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-4A	L2112425-15	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-4A	L2112425-15	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-4A	L2112425-15	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-4A	L2112425-15	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-4A	L2112425-15	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-4A	L2112425-15	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-4A	L2112425-15	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-4A	L2112425-15	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-4A	L2112425-15	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-4A	L2112425-15	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-4A	L2112425-15	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-4A	L2112425-15	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-4B	L2112425-16	DICHLORODIFLUOROMETHANE	3/19/2021	2.05	Y	Y				0.989	0.288	ug/m3
IA-4B	L2112425-16	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-4B	L2112425-16	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-4B	L2112425-16	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-4B	L2112425-16	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U		U	1.48	0.5	ug/m3
IA-4B	L2112425-16	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4B	L2112425-16	ACETONE	3/19/2021	15.6	Y	Y				2.38	1.64	ug/m3
IA-4B	L2112425-16	O-XYLENE	3/19/2021	1.3	Y	Y				0.869	0.197	ug/m3
IA-4B	L2112425-16	CHLOROMETHANE	3/19/2021	1	Y	Y				0.413	0.142	ug/m3
IA-4B	L2112425-16	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-4B	L2112425-16	ETHYL ALCOHOL	3/19/2021	196	Y	Y				9.42	1.38	ug/m3
IA-4B	L2112425-16	ETHYLBENZENE	3/19/2021	1.13	Y	Y				0.869	0.188	ug/m3
IA-4B	L2112425-16	HEPTANE	3/19/2021	1.75	Y	Y				0.82	0.193	ug/m3
IA-4B	L2112425-16	ISO-PROPYL ALCOHOL	3/19/2021	35.2	Y	Y				1.23	1.17	ug/m3
IA-4B	L2112425-16	TOLUENE	3/19/2021	2.58	Y	Y				0.754	0.196	ug/m3
IA-4B	L2112425-16	TRICHLOROFLUOROMETHANE	3/19/2021	1.27	Y	Y				1.12	0.386	ug/m3
IA-4B	L2112425-16	BENZENE	3/19/2021	1.08	Y	Y				0.639	0.156	ug/m3
IA-4B	L2112425-16	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-4B	L2112425-16	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-4B	L2112425-16	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-4B	L2112425-16	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-4B	L2112425-16	N-HEXANE	3/19/2021		Y	N	U		U	0.705	0.128	ug/m3
IA-4B	L2112425-16	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-4B	L2112425-16	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-4B	L2112425-16	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-4B	L2112425-16	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-4B	L2112425-16	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-4B	L2112425-16	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-4B	L2112425-16	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-4B	L2112425-16	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U		U	2.13	0.564	ug/m3
IA-4B	L2112425-16	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4B	L2112425-16	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-4B	L2112425-16	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-4B	L2112425-16	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-4B	L2112425-16	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-4B	L2112425-16	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-4B	L2112425-16	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-4B	L2112425-16	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-4B	L2112425-16	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
IA-4B	L2112425-16	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-4B	L2112425-16	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-4B	L2112425-16	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-4B	L2112425-16	ETHYL ACETATE	3/19/2021		Y	N	U		U	1.8	0.44	ug/m3
IA-4B	L2112425-16	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-4B	L2112425-16	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-4B	L2112425-16	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-4B	L2112425-16	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-4B	L2112425-16	P/M-XYLENE	3/19/2021	4.43	Y	Y				1.74	0.395	ug/m3
IA-4B	L2112425-16	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-4B	L2112425-16	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
IA-4B	L2112425-16	2-BUTANONE	3/19/2021		Y	N	U		U	1.47	0.142	ug/m3
IA-4B	L2112425-16	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-4B	L2112425-16	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-4B	L2112425-16	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-4B	L2112425-16	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-4B	L2112425-16	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4C	L2112425-17	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-4C	L2112425-17	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-4C	L2112425-17	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-4C	L2112425-17	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-4C	L2112425-17	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-4C	L2112425-17	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-4C	L2112425-17	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-4C	L2112425-17	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-4C	L2112425-17	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-4C	L2112425-17	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-4C	L2112425-17	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-4C	L2112425-17	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-4C	L2112425-17	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-4C	L2112425-17	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-4C	L2112425-17	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-4C	L2112425-17	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-4C	L2112425-17	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-4C	L2112425-17	1,2-DICHLOROETHANE	3/19/2021	1.04	Y	Y				0.809	0.244	ug/m3
IA-4C	L2112425-17	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-4C	L2112425-17	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-4C	L2112425-17	CHLOROFORM	3/19/2021	4.68	Y	Y				0.977	0.309	ug/m3
IA-4C	L2112425-17	P/M-XYLENE	3/19/2021	1.85	Y	Y				1.74	0.395	ug/m3
IA-4C	L2112425-17	N-HEXANE	3/19/2021	0.765	Y	Y				0.705	0.128	ug/m3
IA-4C	L2112425-17	TRICHLOROFLUOROMETHANE	3/19/2021	2.28	Y	Y				1.12	0.386	ug/m3
IA-4C	L2112425-17	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4C	L2112425-17	TOLUENE	3/19/2021	3	Y	Y				0.754	0.196	ug/m3
IA-4C	L2112425-17	ISO-PROPYL ALCOHOL	3/19/2021	91.4	Y	Y				1.23	1.17	ug/m3
IA-4C	L2112425-17	HEPTANE	3/19/2021	2.73	Y	Y				0.82	0.193	ug/m3
IA-4C	L2112425-17	ETHYL ACETATE	3/19/2021	13.8	Y	Y				1.8	0.44	ug/m3
IA-4C	L2112425-17	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-4C	L2112425-17	CHLOROMETHANE	3/19/2021	1.33	Y	Y				0.413	0.142	ug/m3
IA-4C	L2112425-17	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-4C	L2112425-17	BENZENE	3/19/2021	1.17	Y	Y				0.639	0.156	ug/m3
IA-4C	L2112425-17	ACETONE	3/19/2021	67.5	Y	Y				2.38	1.64	ug/m3
IA-4C	L2112425-17	2-BUTANONE	3/19/2021	2.12	Y	Y				1.47	0.142	ug/m3
IA-4C	L2112425-17	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-4C	L2112425-17	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-4C	L2112425-17	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-4C	L2112425-17	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
IA-4C	L2112425-17	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
IA-4C	L2112425-17	DICHLORODIFLUOROMETHANE	3/19/2021	2.5	Y	Y				0.989	0.288	ug/m3
IA-4C	L2112425-17	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-4C	L2112425-17	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-4C	L2112425-17	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-4C	L2112425-17	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-4C	L2112425-17	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-4C	L2112425-17	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-4C	L2112425-17	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-4C	L2112425-17	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-4C	L2112425-17	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4C	L2112425-17	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-4C	L2112425-17	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-4C	L2112425-17	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3
IA-4C	L2112425-17	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-4C	L2112425-17	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
IA-4C	L2112425-17	ETHYL ALCOHOL	3/20/2021	1810	Y	Y				47.1	6.9	ug/m3
IA-4D	L2112425-18	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-4D	L2112425-18	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-4D	L2112425-18	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
IA-4D	L2112425-18	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-4D	L2112425-18	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-4D	L2112425-18	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-4D	L2112425-18	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-4D	L2112425-18	1,3-BUTADIENE	3/19/2021	0.763	Y	Y				0.442	0.148	ug/m3
IA-4D	L2112425-18	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3
IA-4D	L2112425-18	ETHYL ACETATE	3/19/2021	3.57	Y	Y				1.8	0.44	ug/m3
IA-4D	L2112425-18	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-4D	L2112425-18	2-BUTANONE	3/19/2021	2	Y	Y				1.47	0.142	ug/m3
IA-4D	L2112425-18	ACETONE	3/19/2021	31.4	Y	Y				2.38	1.64	ug/m3
IA-4D	L2112425-18	BENZENE	3/19/2021	1.57	Y	Y				0.639	0.156	ug/m3
IA-4D	L2112425-18	CHLOROMETHANE	3/19/2021	1.67	Y	Y				0.413	0.142	ug/m3
IA-4D	L2112425-18	CYCLOHEXANE	3/19/2021	0.723	Y	Y				0.688	0.127	ug/m3
IA-4D	L2112425-18	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-4D	L2112425-18	ETHYL ALCOHOL	3/19/2021	433	Y	Y				9.42	1.38	ug/m3
IA-4D	L2112425-18	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4D	L2112425-18	HEPTANE	3/19/2021	8.57	Y	Y				0.82	0.193	ug/m3
IA-4D	L2112425-18	ISO-PROPYL ALCOHOL	3/19/2021	61.9	Y	Y				1.23	1.17	ug/m3
IA-4D	L2112425-18	TOLUENE	3/19/2021	3.73	Y	Y				0.754	0.196	ug/m3
IA-4D	L2112425-18	TRICHLOROFLUOROMETHANE	3/19/2021	1.47	Y	Y				1.12	0.386	ug/m3
IA-4D	L2112425-18	N-HEXANE	3/19/2021	0.885	Y	Y				0.705	0.128	ug/m3
IA-4D	L2112425-18	P/M-XYLENE	3/19/2021	2.14	Y	Y				1.74	0.395	ug/m3
IA-4D	L2112425-18	DICHLORODIFLUOROMETHANE	3/19/2021	2.26	Y	Y				0.989	0.288	ug/m3
IA-4D	L2112425-18	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
IA-4D	L2112425-18	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-4D	L2112425-18	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-4D	L2112425-18	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-4D	L2112425-18	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-4D	L2112425-18	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-4D	L2112425-18	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-4D	L2112425-18	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-4D	L2112425-18	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-4D	L2112425-18	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-4D	L2112425-18	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-4D	L2112425-18	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-4D	L2112425-18	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-4D	L2112425-18	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
IA-4D	L2112425-18	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-4D	L2112425-18	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-4D	L2112425-18	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-4D	L2112425-18	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4D	L2112425-18	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
IA-4D	L2112425-18	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-4D	L2112425-18	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-4D	L2112425-18	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-4D	L2112425-18	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-4D	L2112425-18	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-4D	L2112425-18	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-4D	L2112425-18	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-4D	L2112425-18	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-4D	L2112425-18	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-4D	L2112425-18	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-4D	L2112425-18	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-4E	L2112425-19	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-4E	L2112425-19	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-4E	L2112425-19	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-4E	L2112425-19	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-4E	L2112425-19	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-4E	L2112425-19	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-4E	L2112425-19	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-4E	L2112425-19	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-4E	L2112425-19	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-4E	L2112425-19	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
IA-4E	L2112425-19	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
IA-4E	L2112425-19	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-4E	L2112425-19	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4E	L2112425-19	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-4E	L2112425-19	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-4E	L2112425-19	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-4E	L2112425-19	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-4E	L2112425-19	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-4E	L2112425-19	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-4E	L2112425-19	2-BUTANONE	3/19/2021		Y	N	U		U	1.47	0.142	ug/m3
IA-4E	L2112425-19	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-4E	L2112425-19	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-4E	L2112425-19	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-4E	L2112425-19	DICHLORODIFLUOROMETHANE	3/19/2021	2.49	Y	Y				0.989	0.288	ug/m3
IA-4E	L2112425-19	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-4E	L2112425-19	N-HEXANE	3/19/2021		Y	N	U		U	0.705	0.128	ug/m3
IA-4E	L2112425-19	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
IA-4E	L2112425-19	P/M-XYLENE	3/19/2021		Y	N	U		U	1.74	0.395	ug/m3
IA-4E	L2112425-19	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-4E	L2112425-19	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-4E	L2112425-19	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-4E	L2112425-19	CHLOROMETHANE	3/19/2021	0.975	Y	Y				0.413	0.142	ug/m3
IA-4E	L2112425-19	ACETONE	3/19/2021	11.5	Y	Y				2.38	1.64	ug/m3
IA-4E	L2112425-19	ETHYL ALCOHOL	3/19/2021	105	Y	Y				9.42	1.38	ug/m3
IA-4E	L2112425-19	ISO-PROPYL ALCOHOL	3/19/2021	23.9	Y	Y				1.23	1.17	ug/m3
IA-4E	L2112425-19	TOLUENE	3/19/2021	1.62	Y	Y				0.754	0.196	ug/m3
IA-4E	L2112425-19	TRICHLOROFLUOROMETHANE	3/19/2021	1.83	Y	Y				1.12	0.386	ug/m3
IA-4E	L2112425-19	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4E	L2112425-19	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-4E	L2112425-19	BENZENE	3/19/2021	0.847	Y	Y				0.639	0.156	ug/m3
IA-4E	L2112425-19	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-4E	L2112425-19	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-4E	L2112425-19	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-4E	L2112425-19	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
IA-4E	L2112425-19	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-4E	L2112425-19	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-4E	L2112425-19	ETHYL ACETATE	3/19/2021		Y	N	U		U	1.8	0.44	ug/m3
IA-4E	L2112425-19	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-4E	L2112425-19	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-4E	L2112425-19	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-4E	L2112425-19	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-4E	L2112425-19	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-4E	L2112425-19	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-4E	L2112425-19	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3
IA-4E	L2112425-19	HEPTANE	3/19/2021		Y	N	U		U	0.82	0.193	ug/m3
IA-4E	L2112425-19	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-4F	L2112425-20	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-4F	L2112425-20	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3
IA-4F	L2112425-20	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-4F	L2112425-20	1,2,4-TRIMETHYLBENZENE	3/19/2021	1.19	Y	Y				0.983	0.181	ug/m3
IA-4F	L2112425-20	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-4F	L2112425-20	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-4F	L2112425-20	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4F	L2112425-20	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-4F	L2112425-20	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-4F	L2112425-20	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-4F	L2112425-20	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-4F	L2112425-20	STYRENE	3/19/2021	1.01	Y	Y				0.852	0.185	ug/m3
IA-4F	L2112425-20	TOLUENE	3/19/2021	3.84	Y	Y				0.754	0.196	ug/m3
IA-4F	L2112425-20	DICHLORODIFLUOROMETHANE	3/19/2021	2.49	Y	Y				0.989	0.288	ug/m3
IA-4F	L2112425-20	CHLOROMETHANE	3/19/2021	1.03	Y	Y				0.413	0.142	ug/m3
IA-4F	L2112425-20	BENZENE	3/19/2021	0.926	Y	Y				0.639	0.156	ug/m3
IA-4F	L2112425-20	P/M-XYLENE	3/19/2021	5.99	Y	Y				1.74	0.395	ug/m3
IA-4F	L2112425-20	2-BUTANONE	3/19/2021	2.23	Y	Y				1.47	0.142	ug/m3
IA-4F	L2112425-20	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-4F	L2112425-20	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-4F	L2112425-20	O-XYLENE	3/19/2021	1.74	Y	Y				0.869	0.197	ug/m3
IA-4F	L2112425-20	N-HEXANE	3/19/2021	0.737	Y	Y				0.705	0.128	ug/m3
IA-4F	L2112425-20	TRICHLOROFLUOROMETHANE	3/19/2021	2.42	Y	Y				1.12	0.386	ug/m3
IA-4F	L2112425-20	ACETONE	3/19/2021	44.2	Y	Y				2.38	1.64	ug/m3
IA-4F	L2112425-20	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-4F	L2112425-20	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-4F	L2112425-20	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-4F	L2112425-20	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-4F	L2112425-20	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-4F	L2112425-20	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-4F	L2112425-20	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-4F	L2112425-20	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4F	L2112425-20	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-4F	L2112425-20	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
IA-4F	L2112425-20	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-4F	L2112425-20	ISO-PROPYL ALCOHOL	3/19/2021	45.2	Y	Y				1.23	1.17	ug/m3
IA-4F	L2112425-20	HEPTANE	3/19/2021	1.45	Y	Y				0.82	0.193	ug/m3
IA-4F	L2112425-20	ETHYLBENZENE	3/19/2021	1.54	Y	Y				0.869	0.188	ug/m3
IA-4F	L2112425-20	ETHYL ACETATE	3/19/2021	3.68	Y	Y				1.8	0.44	ug/m3
IA-4F	L2112425-20	ETHYL ALCOHOL	3/19/2021	205	Y	Y				9.42	1.38	ug/m3
IA-4F	L2112425-20	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-4F	L2112425-20	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-4F	L2112425-20	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-4F	L2112425-20	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-4F	L2112425-20	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-4F	L2112425-20	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
IA-4F	L2112425-20	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-4F	L2112425-20	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-4F	L2112425-20	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-4F	L2112425-20	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-4F	L2112425-20	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-4F	L2112425-20	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-4F	L2112425-20	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-4F	L2112425-20	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-4F	L2112425-20	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-4F	L2112425-20	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-4G	L2112425-21	TOLUENE	3/19/2021	3.04	Y	Y				0.754	0.196	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4G	L2112425-21	ACETONE	3/19/2021	62.7	Y	Y				2.38	1.64	ug/m3
IA-4G	L2112425-21	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-4G	L2112425-21	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-4G	L2112425-21	1,2,4-TRIMETHYLBENZENE	3/19/2021	1.06	Y	Y				0.983	0.181	ug/m3
IA-4G	L2112425-21	1,2-DICHLOROETHANE	3/19/2021	1.6	Y	Y				0.809	0.244	ug/m3
IA-4G	L2112425-21	2-BUTANONE	3/19/2021	3.51	Y	Y				1.47	0.142	ug/m3
IA-4G	L2112425-21	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-4G	L2112425-21	BENZENE	3/19/2021	1.35	Y	Y				0.639	0.156	ug/m3
IA-4G	L2112425-21	CHLOROFORM	3/19/2021	3.04	Y	Y				0.977	0.309	ug/m3
IA-4G	L2112425-21	CHLOROMETHANE	3/19/2021	1.23	Y	Y				0.413	0.142	ug/m3
IA-4G	L2112425-21	DICHLORODIFLUOROMETHANE	3/19/2021	2.48	Y	Y				0.989	0.288	ug/m3
IA-4G	L2112425-21	ETHYL ACETATE	3/19/2021	8.61	Y	Y				1.8	0.44	ug/m3
IA-4G	L2112425-21	ISO-PROPYL ALCOHOL	3/19/2021	93.9	Y	Y				1.23	1.17	ug/m3
IA-4G	L2112425-21	TRICHLOROFLUOROMETHANE	3/19/2021	4.9	Y	Y				1.12	0.386	ug/m3
IA-4G	L2112425-21	N-HEXANE	3/19/2021	0.712	Y	Y				0.705	0.128	ug/m3
IA-4G	L2112425-21	O-XYLENE	3/19/2021	0.934	Y	Y				0.869	0.197	ug/m3
IA-4G	L2112425-21	P/M-XYLENE	3/19/2021	2.53	Y	Y				1.74	0.395	ug/m3
IA-4G	L2112425-21	HEPTANE	3/19/2021	1.08	Y	Y				0.82	0.193	ug/m3
IA-4G	L2112425-21	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-4G	L2112425-21	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-4G	L2112425-21	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-4G	L2112425-21	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-4G	L2112425-21	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-4G	L2112425-21	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-4G	L2112425-21	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4G	L2112425-21	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-4G	L2112425-21	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-4G	L2112425-21	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-4G	L2112425-21	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-4G	L2112425-21	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-4G	L2112425-21	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-4G	L2112425-21	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-4G	L2112425-21	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
IA-4G	L2112425-21	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-4G	L2112425-21	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-4G	L2112425-21	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-4G	L2112425-21	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-4G	L2112425-21	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-4G	L2112425-21	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-4G	L2112425-21	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-4G	L2112425-21	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-4G	L2112425-21	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-4G	L2112425-21	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-4G	L2112425-21	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-4G	L2112425-21	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3
IA-4G	L2112425-21	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-4G	L2112425-21	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-4G	L2112425-21	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-4G	L2112425-21	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-4G	L2112425-21	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4G	L2112425-21	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-4G	L2112425-21	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-4G	L2112425-21	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-4G	L2112425-21	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-4G	L2112425-21	ETHYL ALCOHOL	3/20/2021	784	Y	Y				23.6	3.45	ug/m3
IA-4H	L2112425-22	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-4H	L2112425-22	N-HEXANE	3/19/2021		Y	N	U		U	0.705	0.128	ug/m3
IA-4H	L2112425-22	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
IA-4H	L2112425-22	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-4H	L2112425-22	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-4H	L2112425-22	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-4H	L2112425-22	P/M-XYLENE	3/19/2021	2.06	Y	Y				1.74	0.395	ug/m3
IA-4H	L2112425-22	TRICHLOROFLUOROMETHANE	3/19/2021	2.5	Y	Y				1.12	0.386	ug/m3
IA-4H	L2112425-22	TOLUENE	3/19/2021	2.48	Y	Y				0.754	0.196	ug/m3
IA-4H	L2112425-22	ISO-PROPYL ALCOHOL	3/19/2021	52.1	Y	Y				1.23	1.17	ug/m3
IA-4H	L2112425-22	HEPTANE	3/19/2021	1.88	Y	Y				0.82	0.193	ug/m3
IA-4H	L2112425-22	ETHYL ACETATE	3/19/2021	2.52	Y	Y				1.8	0.44	ug/m3
IA-4H	L2112425-22	ETHYL ALCOHOL	3/19/2021	288	Y	Y				9.42	1.38	ug/m3
IA-4H	L2112425-22	DICHLORODIFLUOROMETHANE	3/19/2021	2.46	Y	Y				0.989	0.288	ug/m3
IA-4H	L2112425-22	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-4H	L2112425-22	CHLOROMETHANE	3/19/2021	1.08	Y	Y				0.413	0.142	ug/m3
IA-4H	L2112425-22	BENZENE	3/19/2021	1.02	Y	Y				0.639	0.156	ug/m3
IA-4H	L2112425-22	ACETONE	3/19/2021	24.7	Y	Y				2.38	1.64	ug/m3
IA-4H	L2112425-22	2-BUTANONE	3/19/2021	1.7	Y	Y				1.47	0.142	ug/m3
IA-4H	L2112425-22	1,2,4-TRIMETHYLBENZENE	3/19/2021	0.998	Y	Y				0.983	0.181	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4H	L2112425-22	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-4H	L2112425-22	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-4H	L2112425-22	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-4H	L2112425-22	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-4H	L2112425-22	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-4H	L2112425-22	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-4H	L2112425-22	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-4H	L2112425-22	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-4H	L2112425-22	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-4H	L2112425-22	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-4H	L2112425-22	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-4H	L2112425-22	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-4H	L2112425-22	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-4H	L2112425-22	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-4H	L2112425-22	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-4H	L2112425-22	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-4H	L2112425-22	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-4H	L2112425-22	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-4H	L2112425-22	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-4H	L2112425-22	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-4H	L2112425-22	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-4H	L2112425-22	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-4H	L2112425-22	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-4H	L2112425-22	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
IA-4H	L2112425-22	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4H	L2112425-22	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-4H	L2112425-22	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-4H	L2112425-22	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3
IA-4H	L2112425-22	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-4H	L2112425-22	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-4H	L2112425-22	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
IA-4H	L2112425-22	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-4H	L2112425-22	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-4H	L2112425-22	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-4H	L2112425-22	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-4H	L2112425-22	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-5	L2112425-23	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-5	L2112425-23	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-5	L2112425-23	ISO-PROPYL ALCOHOL	3/19/2021	117	Y	Y				1.23	1.17	ug/m3
IA-5	L2112425-23	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-5	L2112425-23	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
IA-5	L2112425-23	P/M-XYLENE	3/19/2021	1.98	Y	Y				1.74	0.395	ug/m3
IA-5	L2112425-23	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-5	L2112425-23	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-5	L2112425-23	N-HEXANE	3/19/2021		Y	N	U		U	0.705	0.128	ug/m3
IA-5	L2112425-23	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-5	L2112425-23	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-5	L2112425-23	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-5	L2112425-23	TOLUENE	3/19/2021	2.8	Y	Y				0.754	0.196	ug/m3
IA-5	L2112425-23	HEPTANE	3/19/2021	0.828	Y	Y				0.82	0.193	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-5	L2112425-23	CHLOROMETHANE	3/19/2021	0.983	Y	Y				0.413	0.142	ug/m3
IA-5	L2112425-23	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-5	L2112425-23	ETHYL ACETATE	3/19/2021	8.9	Y	Y				1.8	0.44	ug/m3
IA-5	L2112425-23	ETHYL ALCOHOL	3/19/2021	903	Y	Y				9.42	1.38	ug/m3
IA-5	L2112425-23	DICHLORODIFLUOROMETHANE	3/19/2021	2.43	Y	Y				0.989	0.288	ug/m3
IA-5	L2112425-23	TRICHLOROFLUOROMETHANE	3/19/2021	6.24	Y	Y				1.12	0.386	ug/m3
IA-5	L2112425-23	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-5	L2112425-23	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-5	L2112425-23	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-5	L2112425-23	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-5	L2112425-23	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-5	L2112425-23	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-5	L2112425-23	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-5	L2112425-23	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-5	L2112425-23	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-5	L2112425-23	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
IA-5	L2112425-23	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-5	L2112425-23	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-5	L2112425-23	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-5	L2112425-23	CHLOROFORM	3/19/2021	1.32	Y	Y				0.977	0.309	ug/m3
IA-5	L2112425-23	BENZENE	3/19/2021	1.05	Y	Y				0.639	0.156	ug/m3
IA-5	L2112425-23	ACETONE	3/19/2021	24.2	Y	Y				2.38	1.64	ug/m3
IA-5	L2112425-23	2-BUTANONE	3/19/2021	2.35	Y	Y				1.47	0.142	ug/m3
IA-5	L2112425-23	1,2,4-TRIMETHYLBENZENE	3/19/2021	1.39	Y	Y				0.983	0.181	ug/m3
IA-5	L2112425-23	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-5	L2112425-23	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-5	L2112425-23	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-5	L2112425-23	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-5	L2112425-23	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-5	L2112425-23	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-5	L2112425-23	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-5	L2112425-23	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-5	L2112425-23	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-5	L2112425-23	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-5	L2112425-23	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-5	L2112425-23	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-5	L2112425-23	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-5	L2112425-23	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-5	L2112425-23	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-5	L2112425-23	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-5	L2112425-23	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-5	L2112425-23	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-DUP-1	L2112425-24	TOLUENE	3/19/2021	5.16	Y	Y				0.754	0.196	ug/m3
IA-DUP-1	L2112425-24	TRICHLOROFLUOROMETHANE	3/19/2021	1.89	Y	Y				1.12	0.386	ug/m3
IA-DUP-1	L2112425-24	N-HEXANE	3/19/2021	0.853	Y	Y				0.705	0.128	ug/m3
IA-DUP-1	L2112425-24	P/M-XYLENE	3/19/2021	2.09	Y	Y				1.74	0.395	ug/m3
IA-DUP-1	L2112425-24	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-DUP-1	L2112425-24	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-DUP-1	L2112425-24	ISO-PROPYL ALCOHOL	3/19/2021	256	Y	Y				1.23	1.17	ug/m3
IA-DUP-1	L2112425-24	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-DUP-1	L2112425-24	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-DUP-1	L2112425-24	HEPTANE	3/19/2021	34.6	Y	Y				0.82	0.193	ug/m3
IA-DUP-1	L2112425-24	ETHYL ACETATE	3/19/2021	3.44	Y	Y				1.8	0.44	ug/m3
IA-DUP-1	L2112425-24	ETHYL ALCOHOL	3/19/2021	825	Y	Y				9.42	1.38	ug/m3
IA-DUP-1	L2112425-24	DICHLORODIFLUOROMETHANE	3/19/2021	2.46	Y	Y				0.989	0.288	ug/m3
IA-DUP-1	L2112425-24	CYCLOHEXANE	3/19/2021	1.83	Y	Y				0.688	0.127	ug/m3
IA-DUP-1	L2112425-24	CHLOROMETHANE	3/19/2021	1.08	Y	Y				0.413	0.142	ug/m3
IA-DUP-1	L2112425-24	BENZENE	3/19/2021	1.07	Y	Y				0.639	0.156	ug/m3
IA-DUP-1	L2112425-24	2-BUTANONE	3/19/2021	1.53	Y	Y				1.47	0.142	ug/m3
IA-DUP-1	L2112425-24	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
IA-DUP-1	L2112425-24	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-DUP-1	L2112425-24	ACETONE	3/19/2021	39	Y	Y				2.38	1.64	ug/m3
IA-DUP-1	L2112425-24	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-DUP-1	L2112425-24	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-DUP-1	L2112425-24	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-DUP-1	L2112425-24	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-DUP-1	L2112425-24	CHLOROFORM	3/19/2021		Y	N	U		U	0.977	0.309	ug/m3
IA-DUP-1	L2112425-24	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-DUP-1	L2112425-24	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-DUP-1	L2112425-24	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-DUP-1	L2112425-24	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-DUP-1	L2112425-24	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-DUP-1	L2112425-24	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3
IA-DUP-1	L2112425-24	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-DUP-1	L2112425-24	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3

SDG: L2112425

Analytical Method		TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-DUP-1	L2112425-24	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-DUP-1	L2112425-24	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3
IA-DUP-1	L2112425-24	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-DUP-1	L2112425-24	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-DUP-1	L2112425-24	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-DUP-1	L2112425-24	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-DUP-1	L2112425-24	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-DUP-1	L2112425-24	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-DUP-1	L2112425-24	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-DUP-1	L2112425-24	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-DUP-1	L2112425-24	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-DUP-1	L2112425-24	1,2,4-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.181	ug/m3
IA-DUP-1	L2112425-24	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
IA-DUP-1	L2112425-24	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-DUP-1	L2112425-24	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-DUP-1	L2112425-24	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-DUP-1	L2112425-24	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-DUP-1	L2112425-24	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-DUP-1	L2112425-24	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-DUP-1	L2112425-24	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-DUP-1	L2112425-24	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-DUP-1	L2112425-24	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-DUP-1	L2112425-24	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3
IA-DUP-2	L2112425-25	1,4-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.382	ug/m3
IA-DUP-2	L2112425-25	ACETONE	3/19/2021	24	Y	Y				2.38	1.64	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-DUP-2	L2112425-25	1,3,5-TRIMETHYLBENZENE	3/19/2021		Y	N	U		U	0.983	0.332	ug/m3
IA-DUP-2	L2112425-25	1,2,4-TRIMETHYLBENZENE	3/19/2021	1.21	Y	Y				0.983	0.181	ug/m3
IA-DUP-2	L2112425-25	1,2-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.378	ug/m3
IA-DUP-2	L2112425-25	1,2-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.244	ug/m3
IA-DUP-2	L2112425-25	1,2-DICHLOROPROPANE	3/19/2021		Y	N	U		U	0.924	0.282	ug/m3
IA-DUP-2	L2112425-25	P/M-XYLENE	3/19/2021	1.87	Y	Y				1.74	0.395	ug/m3
IA-DUP-2	L2112425-25	N-HEXANE	3/19/2021	0.747	Y	Y				0.705	0.128	ug/m3
IA-DUP-2	L2112425-25	2-BUTANONE	3/19/2021	2.47	Y	Y				1.47	0.142	ug/m3
IA-DUP-2	L2112425-25	CHLOROFORM	3/19/2021	1.26	Y	Y				0.977	0.309	ug/m3
IA-DUP-2	L2112425-25	CHLOROMETHANE	3/19/2021	0.977	Y	Y				0.413	0.142	ug/m3
IA-DUP-2	L2112425-25	DICHLORODIFLUOROMETHANE	3/19/2021	2.43	Y	Y				0.989	0.288	ug/m3
IA-DUP-2	L2112425-25	1,1,2,2-TETRACHLOROETHANE	3/19/2021		Y	N	U		U	1.37	0.422	ug/m3
IA-DUP-2	L2112425-25	ETHYL ALCOHOL	3/19/2021	880	Y	Y				9.42	1.38	ug/m3
IA-DUP-2	L2112425-25	ETHYL ACETATE	3/19/2021	8.58	Y	Y				1.8	0.44	ug/m3
IA-DUP-2	L2112425-25	HEPTANE	3/19/2021	0.836	Y	Y				0.82	0.193	ug/m3
IA-DUP-2	L2112425-25	ISO-PROPYL ALCOHOL	3/19/2021	114	Y	Y				1.23	1.17	ug/m3
IA-DUP-2	L2112425-25	1,1,2-TRICHLOROETHANE	3/19/2021		Y	N	U		U	1.09	0.366	ug/m3
IA-DUP-2	L2112425-25	1,1-DICHLOROETHANE	3/19/2021		Y	N	U		U	0.809	0.254	ug/m3
IA-DUP-2	L2112425-25	1,2,4-TRICHLOROBENZENE	3/19/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
IA-DUP-2	L2112425-25	1,2-DIBROMOETHANE	3/19/2021		Y	N	U		U	1.54	0.431	ug/m3
IA-DUP-2	L2112425-25	TOLUENE	3/19/2021	2.78	Y	Y				0.754	0.196	ug/m3
IA-DUP-2	L2112425-25	TRICHLOROFLUOROMETHANE	3/19/2021	5.96	Y	Y				1.12	0.386	ug/m3
IA-DUP-2	L2112425-25	BENZENE	3/19/2021	1.06	Y	Y				0.639	0.156	ug/m3
IA-DUP-2	L2112425-25	METHYLENE CHLORIDE	3/19/2021		Y	N	U		U	1.74	0.466	ug/m3
IA-DUP-2	L2112425-25	4-METHYL-2-PENTANONE	3/19/2021		Y	N	U		U	2.05	0.173	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-DUP-2	L2112425-25	BENZYL CHLORIDE	3/19/2021		Y	N	U		U	1.04	0.25	ug/m3
IA-DUP-2	L2112425-25	BROMODICHLOROMETHANE	3/19/2021		Y	N	U		U	1.34	0.338	ug/m3
IA-DUP-2	L2112425-25	BROMOFORM	3/19/2021		Y	N	U		U	2.07	0.663	ug/m3
IA-DUP-2	L2112425-25	BROMOMETHANE	3/19/2021		Y	N	U		U	0.777	0.3	ug/m3
IA-DUP-2	L2112425-25	CARBON DISULFIDE	3/19/2021		Y	N	U		U	0.623	0.174	ug/m3
IA-DUP-2	L2112425-25	CHLOROBENZENE	3/19/2021		Y	N	U		U	0.921	0.287	ug/m3
IA-DUP-2	L2112425-25	CHLOROETHANE	3/19/2021		Y	N	U		U	0.528	0.212	ug/m3
IA-DUP-2	L2112425-25	CYCLOHEXANE	3/19/2021		Y	N	U		U	0.688	0.127	ug/m3
IA-DUP-2	L2112425-25	DIBROMOCHLOROMETHANE	3/19/2021		Y	N	U		U	1.7	0.523	ug/m3
IA-DUP-2	L2112425-25	ETHYLBENZENE	3/19/2021		Y	N	U		U	0.869	0.188	ug/m3
IA-DUP-2	L2112425-25	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/19/2021		Y	N	U		U	1.53	0.503	ug/m3
IA-DUP-2	L2112425-25	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/19/2021		Y	N	U		U	1.4	0.413	ug/m3
IA-DUP-2	L2112425-25	3-CHLOROPROPENE	3/19/2021		Y	N	U		U	0.626	0.183	ug/m3
IA-DUP-2	L2112425-25	TERT-BUTYL ALCOHOL	3/19/2021		Y	N	U		U	1.52	0.141	ug/m3
IA-DUP-2	L2112425-25	1,3-BUTADIENE	3/19/2021		Y	N	U		U	0.442	0.148	ug/m3
IA-DUP-2	L2112425-25	TRANS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.198	ug/m3
IA-DUP-2	L2112425-25	TRANS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.793	0.255	ug/m3
IA-DUP-2	L2112425-25	O-XYLENE	3/19/2021		Y	N	U		U	0.869	0.197	ug/m3
IA-DUP-2	L2112425-25	CIS-1,3-DICHLOROPROPENE	3/19/2021		Y	N	U		U	0.908	0.186	ug/m3
IA-DUP-2	L2112425-25	HEXACHLOROBUTADIENE	3/19/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3
IA-DUP-2	L2112425-25	TETRAHYDROFURAN	3/19/2021		Y	N	U		U	1.47	0.168	ug/m3
IA-DUP-2	L2112425-25	METHYL TERT BUTYL ETHER	3/19/2021		Y	N	U		U	0.721	0.189	ug/m3
IA-DUP-2	L2112425-25	1,3-DICHLOROBENZENE	3/19/2021		Y	N	U		U	1.2	0.377	ug/m3
IA-DUP-2	L2112425-25	2-HEXANONE	3/19/2021		Y	N	U		U	0.82	0.266	ug/m3
IA-DUP-2	L2112425-25	2,2,4-TRIMETHYLPENTANE	3/19/2021		Y	N	U		U	0.934	0.169	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-DUP-2	L2112425-25	1,4-DIOXANE	3/19/2021		Y	N	U		U	0.721	0.29	ug/m3
IA-DUP-2	L2112425-25	STYRENE	3/19/2021		Y	N	U		U	0.852	0.185	ug/m3
IA-DUP-2	L2112425-25	4-ETHYLTOLUENE	3/19/2021		Y	N	U		U	0.983	0.182	ug/m3
IA-DUP-2	L2112425-25	VINYL BROMIDE	3/19/2021		Y	N	U		U	0.874	0.313	ug/m3
OA-1	L2112425-26	1,1,2-TRICHLOROETHANE	3/20/2021		Y	N	U		U	1.09	0.366	ug/m3
OA-1	L2112425-26	CHLOROMETHANE	3/20/2021	0.892	Y	Y				0.413	0.142	ug/m3
OA-1	L2112425-26	1,1-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.254	ug/m3
OA-1	L2112425-26	BROMOFORM	3/20/2021		Y	N	U		U	2.07	0.663	ug/m3
OA-1	L2112425-26	BROMODICHLOROMETHANE	3/20/2021		Y	N	U		U	1.34	0.338	ug/m3
OA-1	L2112425-26	BENZYL CHLORIDE	3/20/2021		Y	N	U		U	1.04	0.25	ug/m3
OA-1	L2112425-26	1,3,5-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.332	ug/m3
OA-1	L2112425-26	1,2-DICHLOROPROPANE	3/20/2021		Y	N	U		U	0.924	0.282	ug/m3
OA-1	L2112425-26	1,2-DICHLOROETHANE	3/20/2021		Y	N	U		U	0.809	0.244	ug/m3
OA-1	L2112425-26	1,2,4-TRICHLOROBENZENE	3/20/2021		Y	N	U	UJ	UJ	1.48	0.5	ug/m3
OA-1	L2112425-26	1,2,4-TRIMETHYLBENZENE	3/20/2021		Y	N	U		U	0.983	0.181	ug/m3
OA-1	L2112425-26	1,2-DIBROMOETHANE	3/20/2021		Y	N	U		U	1.54	0.431	ug/m3
OA-1	L2112425-26	1,1,2,2-TETRACHLOROETHANE	3/20/2021		Y	N	U		U	1.37	0.422	ug/m3
OA-1	L2112425-26	1,3-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.377	ug/m3
OA-1	L2112425-26	ETHYLBENZENE	3/20/2021		Y	N	U		U	0.869	0.188	ug/m3
OA-1	L2112425-26	DIBROMOCHLOROMETHANE	3/20/2021		Y	N	U		U	1.7	0.523	ug/m3
OA-1	L2112425-26	4-METHYL-2-PENTANONE	3/20/2021		Y	N	U		U	2.05	0.173	ug/m3
OA-1	L2112425-26	ACETONE	3/20/2021	6.39	Y	Y				2.38	1.64	ug/m3
OA-1	L2112425-26	3-CHLOROPROPENE	3/20/2021		Y	N	U		U	0.626	0.183	ug/m3
OA-1	L2112425-26	2-HEXANONE	3/20/2021		Y	N	U		U	0.82	0.266	ug/m3
OA-1	L2112425-26	2-BUTANONE	3/20/2021		Y	N	U		U	1.47	0.142	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
OA-1	L2112425-26	2,2,4-TRIMETHYLPENTANE	3/20/2021		Y	N	U		U	0.934	0.169	ug/m3
OA-1	L2112425-26	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3/20/2021		Y	N	U		U	1.53	0.503	ug/m3
OA-1	L2112425-26	1,4-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.382	ug/m3
OA-1	L2112425-26	ETHYL ACETATE	3/20/2021		Y	N	U		U	1.8	0.44	ug/m3
OA-1	L2112425-26	1,3-BUTADIENE	3/20/2021		Y	N	U		U	0.442	0.148	ug/m3
OA-1	L2112425-26	ETHYL ALCOHOL	3/20/2021	19.4	Y	Y				9.42	1.38	ug/m3
OA-1	L2112425-26	ISO-PROPYL ALCOHOL	3/20/2021	5.14	Y	Y				1.23	1.17	ug/m3
OA-1	L2112425-26	TOLUENE	3/20/2021	1.46	Y	Y				0.754	0.196	ug/m3
OA-1	L2112425-26	TRICHLOROFLUOROMETHANE	3/20/2021	1.69	Y	Y				1.12	0.386	ug/m3
OA-1	L2112425-26	CHLOROBENZENE	3/20/2021		Y	N	U		U	0.921	0.287	ug/m3
OA-1	L2112425-26	CHLOROETHANE	3/20/2021		Y	N	U		U	0.528	0.212	ug/m3
OA-1	L2112425-26	CHLOROFORM	3/20/2021		Y	N	U		U	0.977	0.309	ug/m3
OA-1	L2112425-26	CYCLOHEXANE	3/20/2021		Y	N	U		U	0.688	0.127	ug/m3
OA-1	L2112425-26	1,4-DIOXANE	3/20/2021		Y	N	U		U	0.721	0.29	ug/m3
OA-1	L2112425-26	CIS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.186	ug/m3
OA-1	L2112425-26	BROMOMETHANE	3/20/2021		Y	N	U		U	0.777	0.3	ug/m3
OA-1	L2112425-26	CARBON DISULFIDE	3/20/2021		Y	N	U		U	0.623	0.174	ug/m3
OA-1	L2112425-26	1,2-DICHLOROBENZENE	3/20/2021		Y	N	U		U	1.2	0.378	ug/m3
OA-1	L2112425-26	BENZENE	3/20/2021	0.748	Y	Y				0.639	0.156	ug/m3
OA-1	L2112425-26	DICHLORODIFLUOROMETHANE	3/20/2021	2.41	Y	Y				0.989	0.288	ug/m3
OA-1	L2112425-26	TRANS-1,3-DICHLOROPROPENE	3/20/2021		Y	N	U		U	0.908	0.198	ug/m3
OA-1	L2112425-26	TRANS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.793	0.255	ug/m3
OA-1	L2112425-26	P/M-XYLENE	3/20/2021		Y	N	U		U	1.74	0.395	ug/m3
OA-1	L2112425-26	4-ETHYLTOLUENE	3/20/2021		Y	N	U		U	0.983	0.182	ug/m3
OA-1	L2112425-26	N-HEXANE	3/20/2021		Y	N	U		U	0.705	0.128	ug/m3

SDG: L2112425

Analytical Method TO15

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
OA-1	L2112425-26	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	3/20/2021		Y	N	U		U	1.4	0.413	ug/m3
OA-1	L2112425-26	TERT-BUTYL ALCOHOL	3/20/2021		Y	N	U		U	1.52	0.141	ug/m3
OA-1	L2112425-26	TETRAHYDROFURAN	3/20/2021		Y	N	U		U	1.47	0.168	ug/m3
OA-1	L2112425-26	HEPTANE	3/20/2021		Y	N	U		U	0.82	0.193	ug/m3
OA-1	L2112425-26	HEXACHLOROBUTADIENE	3/20/2021		Y	N	U	UJ	UJ	2.13	0.564	ug/m3
OA-1	L2112425-26	METHYL TERT BUTYL ETHER	3/20/2021		Y	N	U		U	0.721	0.189	ug/m3
OA-1	L2112425-26	METHYLENE CHLORIDE	3/20/2021		Y	N	U		U	1.74	0.466	ug/m3
OA-1	L2112425-26	STYRENE	3/20/2021		Y	N	U		U	0.852	0.185	ug/m3
OA-1	L2112425-26	VINYL BROMIDE	3/20/2021		Y	N	U		U	0.874	0.313	ug/m3
OA-1	L2112425-26	O-XYLENE	3/20/2021		Y	N	U		U	0.869	0.197	ug/m3

Analytical Method TO15 SIM

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-1	L2112425-12	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-1	L2112425-12	TRICHLOROETHENE	3/19/2021	0.435	Y	Y				0.107	0.033	ug/m3
IA-1	L2112425-12	TETRACHLOROETHENE	3/19/2021	1.11	Y	Y				0.136	0.053	ug/m3
IA-1	L2112425-12	CARBON TETRACHLORIDE	3/19/2021	0.396	Y	Y				0.126	0.063	ug/m3
IA-1	L2112425-12	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-1	L2112425-12	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-1	L2112425-12	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-2	L2112425-13	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-2	L2112425-13	TRICHLOROETHENE	3/19/2021	0.408	Y	Y				0.107	0.033	ug/m3
IA-2	L2112425-13	TETRACHLOROETHENE	3/19/2021	0.787	Y	Y				0.136	0.053	ug/m3
IA-2	L2112425-13	CARBON TETRACHLORIDE	3/19/2021	0.421	Y	Y				0.126	0.063	ug/m3
IA-2	L2112425-13	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3

SDG: L2112425

Analytical Method TO15 SIM

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-2	L2112425-13	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-2	L2112425-13	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-3	L2112425-14	TRICHLOROETHENE	3/19/2021	2.14	Y	Y				0.107	0.033	ug/m3
IA-3	L2112425-14	TETRACHLOROETHENE	3/19/2021	2.09	Y	Y				0.136	0.053	ug/m3
IA-3	L2112425-14	CARBON TETRACHLORIDE	3/19/2021	0.403	Y	Y				0.126	0.063	ug/m3
IA-3	L2112425-14	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-3	L2112425-14	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-3	L2112425-14	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-3	L2112425-14	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-4A	L2112425-15	TETRACHLOROETHENE	3/19/2021	1.04	Y	Y				0.136	0.053	ug/m3
IA-4A	L2112425-15	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-4A	L2112425-15	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-4A	L2112425-15	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-4A	L2112425-15	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-4A	L2112425-15	CARBON TETRACHLORIDE	3/19/2021	0.39	Y	Y				0.126	0.063	ug/m3
IA-4A	L2112425-15	TRICHLOROETHENE	3/19/2021	0.344	Y	Y				0.107	0.033	ug/m3
IA-4B	L2112425-16	TRICHLOROETHENE	3/19/2021	0.908	Y	Y				0.107	0.033	ug/m3
IA-4B	L2112425-16	TETRACHLOROETHENE	3/19/2021	1.02	Y	Y				0.136	0.053	ug/m3
IA-4B	L2112425-16	CARBON TETRACHLORIDE	3/19/2021	0.421	Y	Y				0.126	0.063	ug/m3
IA-4B	L2112425-16	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-4B	L2112425-16	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-4B	L2112425-16	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-4B	L2112425-16	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-4C	L2112425-17	CARBON TETRACHLORIDE	3/19/2021	0.591	Y	Y				0.126	0.063	ug/m3
IA-4C	L2112425-17	TRICHLOROETHENE	3/19/2021	1.23	Y	Y				0.107	0.033	ug/m3

SDG: L2112425

Analytical Method TO15 SIM

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4C	L2112425-17	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-4C	L2112425-17	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-4C	L2112425-17	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-4C	L2112425-17	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-4C	L2112425-17	TETRACHLOROETHENE	3/19/2021	2.55	Y	Y				0.136	0.053	ug/m3
IA-4D	L2112425-18	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-4D	L2112425-18	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-4D	L2112425-18	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-4D	L2112425-18	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-4D	L2112425-18	CARBON TETRACHLORIDE	3/19/2021	0.459	Y	Y				0.126	0.063	ug/m3
IA-4D	L2112425-18	TETRACHLOROETHENE	3/19/2021	0.387	Y	Y				0.136	0.053	ug/m3
IA-4D	L2112425-18	TRICHLOROETHENE	3/19/2021		Y	N	U		U	0.107	0.033	ug/m3
IA-4E	L2112425-19	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-4E	L2112425-19	CARBON TETRACHLORIDE	3/19/2021	0.478	Y	Y				0.126	0.063	ug/m3
IA-4E	L2112425-19	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-4E	L2112425-19	TETRACHLOROETHENE	3/19/2021	0.292	Y	Y				0.136	0.053	ug/m3
IA-4E	L2112425-19	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-4E	L2112425-19	TRICHLOROETHENE	3/19/2021		Y	N	U		U	0.107	0.033	ug/m3
IA-4E	L2112425-19	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-4F	L2112425-20	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-4F	L2112425-20	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-4F	L2112425-20	CARBON TETRACHLORIDE	3/19/2021	0.547	Y	Y				0.126	0.063	ug/m3
IA-4F	L2112425-20	TRICHLOROETHENE	3/19/2021	0.516	Y	Y				0.107	0.033	ug/m3
IA-4F	L2112425-20	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-4F	L2112425-20	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3

SDG: L2112425

Analytical Method TO15 SIM

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-4F	L2112425-20	TETRACHLOROETHENE	3/19/2021	0.448	Y	Y				0.136	0.053	ug/m3
IA-4G	L2112425-21	CARBON TETRACHLORIDE	3/19/2021	0.591	Y	Y				0.126	0.063	ug/m3
IA-4G	L2112425-21	TETRACHLOROETHENE	3/19/2021	0.57	Y	Y				0.136	0.053	ug/m3
IA-4G	L2112425-21	TRICHLOROETHENE	3/19/2021	0.333	Y	Y				0.107	0.033	ug/m3
IA-4G	L2112425-21	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-4G	L2112425-21	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-4G	L2112425-21	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-4G	L2112425-21	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-4H	L2112425-22	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-4H	L2112425-22	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-4H	L2112425-22	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-4H	L2112425-22	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-4H	L2112425-22	CARBON TETRACHLORIDE	3/19/2021	0.535	Y	Y				0.126	0.063	ug/m3
IA-4H	L2112425-22	TETRACHLOROETHENE	3/19/2021	0.502	Y	Y				0.136	0.053	ug/m3
IA-4H	L2112425-22	TRICHLOROETHENE	3/19/2021	0.253	Y	Y				0.107	0.033	ug/m3
IA-5	L2112425-23	CARBON TETRACHLORIDE	3/19/2021	0.585	Y	Y				0.126	0.063	ug/m3
IA-5	L2112425-23	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-5	L2112425-23	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-5	L2112425-23	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-5	L2112425-23	TETRACHLOROETHENE	3/19/2021	0.529	Y	Y				0.136	0.053	ug/m3
IA-5	L2112425-23	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-5	L2112425-23	TRICHLOROETHENE	3/19/2021	0.296	Y	Y				0.107	0.033	ug/m3
IA-DUP-1	L2112425-24	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-DUP-1	L2112425-24	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-DUP-1	L2112425-24	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3

SDG: L2112425

Analytical Method TO15 SIM

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
IA-DUP-1	L2112425-24	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-DUP-1	L2112425-24	CARBON TETRACHLORIDE	3/19/2021	0.516	Y	Y				0.126	0.063	ug/m3
IA-DUP-1	L2112425-24	TRICHLOROETHENE	3/19/2021	0.371	Y	Y				0.107	0.033	ug/m3
IA-DUP-1	L2112425-24	TETRACHLOROETHENE	3/19/2021	1.04	Y	Y				0.136	0.053	ug/m3
IA-DUP-2	L2112425-25	CIS-1,2-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.038	ug/m3
IA-DUP-2	L2112425-25	1,1,1-TRICHLOROETHANE	3/19/2021		Y	N	U		U	0.109	0.045	ug/m3
IA-DUP-2	L2112425-25	1,1-DICHLOROETHENE	3/19/2021		Y	N	U		U	0.079	0.033	ug/m3
IA-DUP-2	L2112425-25	VINYL CHLORIDE	3/19/2021		Y	N	U		U	0.051	0.018	ug/m3
IA-DUP-2	L2112425-25	TRICHLOROETHENE	3/19/2021	0.29	Y	Y				0.107	0.033	ug/m3
IA-DUP-2	L2112425-25	TETRACHLOROETHENE	3/19/2021	0.522	Y	Y				0.136	0.053	ug/m3
IA-DUP-2	L2112425-25	CARBON TETRACHLORIDE	3/19/2021	0.522	Y	Y				0.126	0.063	ug/m3
OA-1	L2112425-26	TRICHLOROETHENE	3/20/2021		Y	N	U		U	0.107	0.033	ug/m3
OA-1	L2112425-26	1,1-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.079	0.033	ug/m3
OA-1	L2112425-26	1,1,1-TRICHLOROETHANE	3/20/2021		Y	N	U		U	0.109	0.045	ug/m3
OA-1	L2112425-26	VINYL CHLORIDE	3/20/2021		Y	N	U		U	0.051	0.018	ug/m3
OA-1	L2112425-26	CARBON TETRACHLORIDE	3/20/2021	0.491	Y	Y				0.126	0.063	ug/m3
OA-1	L2112425-26	TETRACHLOROETHENE	3/20/2021	0.325	Y	Y				0.136	0.053	ug/m3
OA-1	L2112425-26	CIS-1,2-DICHLOROETHENE	3/20/2021		Y	N	U		U	0.079	0.038	ug/m3

Appendix E

Laboratory Analytical Report



IMPACT ENVIRONMENTAL
170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599



ANALYTICAL REPORT

Lab Number:	L2112425
Client:	Impact Environmental 170 Keyland Ct Bohemia, NY 11716
ATTN:	Christopher Connolly
Phone:	(631) 269-8800
Project Name:	100 SOUTH 4TH ST.
Project Number:	13817
Report Date:	03/22/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2112425-01	SV-1A	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:29	03/12/21
L2112425-02	SV-1B	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:25	03/12/21
L2112425-03	SV-2A	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:40	03/12/21
L2112425-04	SV-2B	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:48	03/12/21
L2112425-05	SV-3B	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:00	03/12/21
L2112425-06	SV-3A	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:10	03/12/21
L2112425-07	SV-4	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:19	03/12/21
L2112425-08	SV-5A	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:50	03/12/21
L2112425-09	SV-5B	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 10:01	03/12/21
L2112425-10	SV-DUP-1	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 00:00	03/12/21
L2112425-11	SV-DUP-2	SOIL_VAPOR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 00:00	03/12/21
L2112425-12	IA-1	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:20	03/12/21
L2112425-13	IA-2	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:40	03/12/21
L2112425-14	IA-3	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:09	03/12/21
L2112425-15	IA-4A	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:42	03/12/21
L2112425-16	IA-4B	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:02	03/12/21
L2112425-17	IA-4C	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:15	03/12/21
L2112425-18	IA-4D	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:17	03/12/21
L2112425-19	IA-4E	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:12	03/12/21
L2112425-20	IA-4F	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:11	03/12/21
L2112425-21	IA-4G	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:14	03/12/21
L2112425-22	IA-4H	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 09:00	03/12/21
L2112425-23	IA-5	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 10:07	03/12/21
L2112425-24	IA-DUP-1	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 00:00	03/12/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2112425-25	IA-DUP-2	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 00:00	03/12/21
L2112425-26	OA-1	AIR	100 SOUTH 4TH ST, BROOKLYN	03/12/21 08:59	03/12/21

Project Name: 100 SOUTH 4TH ST.
Project Number: 13817

Lab Number: L2112425
Report Date: 03/22/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 100 SOUTH 4TH ST.
Project Number: 13817

Lab Number: L2112425
Report Date: 03/22/21

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 10, 2021. The canister certification results are provided as an addendum.

L2112425-02D,04D,06D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2112425-17,21: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2112425-17D,21D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 03/22/21

AIR

Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-01
 Client ID: SV-1A
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:29
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 20:33
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.409	0.200	--	2.02	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	81.2	5.00	--	153	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	193	1.00	--	458	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	6.29	0.500	--	15.5	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.72	0.500	--	5.21	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.809	0.200	--	3.27	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.79	0.500	--	8.23	1.47	--		1
cis-1,2-Dichloroethene	1.93	0.200	--	7.65	0.793	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-01

Client ID: SV-1A

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:29

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.390	0.200	--	1.90	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.222	0.200	--	0.782	0.705	--		1
1,1,1-Trichloroethane	1.30	0.200	--	7.09	1.09	--		1
Benzene	0.262	0.200	--	0.837	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	22.4	0.200	--	120	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.552	0.200	--	2.08	0.754	--		1
2-Hexanone	0.319	0.200	--	1.31	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	6.78	0.200	--	46.0	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-01

Date Collected: 03/12/21 08:29

Client ID: SV-1A

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-02 D
 Client ID: SV-1B
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:25
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 21:09
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.625	--	ND	3.09	--		3.125
Chloromethane	ND	0.625	--	ND	1.29	--		3.125
Freon-114	ND	0.625	--	ND	4.37	--		3.125
Vinyl chloride	ND	0.625	--	ND	1.60	--		3.125
1,3-Butadiene	ND	0.625	--	ND	1.38	--		3.125
Bromomethane	ND	0.625	--	ND	2.43	--		3.125
Chloroethane	ND	0.625	--	ND	1.65	--		3.125
Ethanol	422	15.6	--	795	29.4	--		3.125
Vinyl bromide	ND	0.625	--	ND	2.73	--		3.125
Acetone	8.90	3.12	--	21.1	7.41	--		3.125
Trichlorofluoromethane	ND	0.625	--	ND	3.51	--		3.125
Isopropanol	3.12	1.56	--	7.67	3.83	--		3.125
1,1-Dichloroethene	ND	0.625	--	ND	2.48	--		3.125
Tertiary butyl Alcohol	ND	1.56	--	ND	4.73	--		3.125
Methylene chloride	ND	1.56	--	ND	5.42	--		3.125
3-Chloropropene	ND	0.625	--	ND	1.96	--		3.125
Carbon disulfide	ND	0.625	--	ND	1.95	--		3.125
Freon-113	ND	0.625	--	ND	4.79	--		3.125
trans-1,2-Dichloroethene	ND	0.625	--	ND	2.48	--		3.125
1,1-Dichloroethane	ND	0.625	--	ND	2.53	--		3.125
Methyl tert butyl ether	ND	0.625	--	ND	2.25	--		3.125
2-Butanone	ND	1.56	--	ND	4.60	--		3.125
cis-1,2-Dichloroethene	22.2	0.625	--	88.0	2.48	--		3.125



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-02 D

Client ID: SV-1B

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:25

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.56	--	ND	5.62	--		3.125
Chloroform	ND	0.625	--	ND	3.05	--		3.125
Tetrahydrofuran	ND	1.56	--	ND	4.60	--		3.125
1,2-Dichloroethane	ND	0.625	--	ND	2.53	--		3.125
n-Hexane	ND	0.625	--	ND	2.20	--		3.125
1,1,1-Trichloroethane	ND	0.625	--	ND	3.41	--		3.125
Benzene	ND	0.625	--	ND	2.00	--		3.125
Carbon tetrachloride	ND	0.625	--	ND	3.93	--		3.125
Cyclohexane	ND	0.625	--	ND	2.15	--		3.125
1,2-Dichloropropane	ND	0.625	--	ND	2.89	--		3.125
Bromodichloromethane	ND	0.625	--	ND	4.19	--		3.125
1,4-Dioxane	ND	0.625	--	ND	2.25	--		3.125
Trichloroethene	186	0.625	--	1000	3.36	--		3.125
2,2,4-Trimethylpentane	ND	0.625	--	ND	2.92	--		3.125
Heptane	ND	0.625	--	ND	2.56	--		3.125
cis-1,3-Dichloropropene	ND	0.625	--	ND	2.84	--		3.125
4-Methyl-2-pentanone	ND	1.56	--	ND	6.39	--		3.125
trans-1,3-Dichloropropene	ND	0.625	--	ND	2.84	--		3.125
1,1,2-Trichloroethane	ND	0.625	--	ND	3.41	--		3.125
Toluene	1.31	0.625	--	4.94	2.36	--		3.125
2-Hexanone	ND	0.625	--	ND	2.56	--		3.125
Dibromochloromethane	ND	0.625	--	ND	5.32	--		3.125
1,2-Dibromoethane	ND	0.625	--	ND	4.80	--		3.125
Tetrachloroethene	183	0.625	--	1240	4.24	--		3.125
Chlorobenzene	ND	0.625	--	ND	2.88	--		3.125
Ethylbenzene	0.931	0.625	--	4.04	2.71	--		3.125



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-02 D**Date Collected:** 03/12/21 08:25**Client ID:** SV-1B**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.71	1.25	--	7.43	5.43	--		3.125
Bromoform	ND	0.625	--	ND	6.46	--		3.125
Styrene	ND	0.625	--	ND	2.66	--		3.125
1,1,2,2-Tetrachloroethane	ND	0.625	--	ND	4.29	--		3.125
o-Xylene	0.891	0.625	--	3.87	2.71	--		3.125
4-Ethyltoluene	ND	0.625	--	ND	3.07	--		3.125
1,3,5-Trimethylbenzene	ND	0.625	--	ND	3.07	--		3.125
1,2,4-Trimethylbenzene	ND	0.625	--	ND	3.07	--		3.125
Benzyl chloride	ND	0.625	--	ND	3.24	--		3.125
1,3-Dichlorobenzene	ND	0.625	--	ND	3.76	--		3.125
1,4-Dichlorobenzene	ND	0.625	--	ND	3.76	--		3.125
1,2-Dichlorobenzene	ND	0.625	--	ND	3.76	--		3.125
1,2,4-Trichlorobenzene	ND	0.625	--	ND	4.64	--		3.125
Hexachlorobutadiene	ND	0.625	--	ND	6.67	--		3.125

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-03
 Client ID: SV-2A
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:40
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 21:49
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.409	0.200	--	2.02	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	0.210	0.200	--	0.537	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	278	5.00	--	524	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.38	1.00	--	19.9	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	0.830	0.500	--	2.04	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.89	0.500	--	5.73	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.609	0.500	--	1.80	1.47	--		1
cis-1,2-Dichloroethene	1.35	0.200	--	5.35	0.793	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-03

Client ID: SV-2A

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:40

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	3.07	0.200	--	16.5	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.98	0.200	--	15.0	0.754	--		1
2-Hexanone	0.344	0.200	--	1.41	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.767	0.200	--	5.20	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.53	0.200	--	15.3	0.869	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-03

Client ID: SV-2A

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:40

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	5.84	0.400	--	25.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.301	0.200	--	1.28	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.30	0.200	--	14.3	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	96		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-04 D
 Client ID: SV-2B
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:48
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 22:26
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	285	50.0	--	537	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	128	10.0	--	304	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	2.07	2.00	--	8.21	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	5.00	--	ND	14.7	--		10
cis-1,2-Dichloroethene	95.6	2.00	--	379	7.93	--		10



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-04 D

Client ID: SV-2B

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:48

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	606	2.00	--	3260	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	2.09	2.00	--	7.88	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	399	2.00	--	2710	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-04 D

Date Collected: 03/12/21 08:48

Client ID: SV-2B

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-05
 Client ID: SV-3B
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:00
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 23:05
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.424	0.200	--	2.10	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	261	5.00	--	492	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	22.6	1.00	--	53.7	2.38	--		1
Trichlorofluoromethane	0.200	0.200	--	1.12	1.12	--		1
Isopropanol	8.50	0.500	--	20.9	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.54	0.500	--	4.67	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	2.92	0.200	--	9.09	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.00	0.500	--	5.90	1.47	--		1
cis-1,2-Dichloroethene	6.07	0.200	--	24.1	0.793	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-05

Client ID: SV-3B

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:00

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	16.1	0.200	--	78.6	0.977	--		1
Tetrahydrofuran	0.753	0.500	--	2.22	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.443	0.200	--	1.56	0.705	--		1
1,1,1-Trichloroethane	0.290	0.200	--	1.58	1.09	--		1
Benzene	0.633	0.200	--	2.02	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.681	0.200	--	2.34	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.293	0.200	--	1.96	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	59.8	0.200	--	321	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.205	0.200	--	0.840	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.13	0.200	--	8.03	0.754	--		1
2-Hexanone	0.504	0.200	--	2.07	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	20.4	0.200	--	138	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.47	0.200	--	6.39	0.869	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-05

Date Collected: 03/12/21 09:00

Client ID: SV-3B

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.61	0.400	--	11.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.50	0.200	--	6.52	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-06 D
 Client ID: SV-3A
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:10
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 23:41
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.588	--	ND	2.91	--		2.941
Chloromethane	ND	0.588	--	ND	1.21	--		2.941
Freon-114	ND	0.588	--	ND	4.11	--		2.941
Vinyl chloride	ND	0.588	--	ND	1.50	--		2.941
1,3-Butadiene	ND	0.588	--	ND	1.30	--		2.941
Bromomethane	ND	0.588	--	ND	2.28	--		2.941
Chloroethane	ND	0.588	--	ND	1.55	--		2.941
Ethanol	22.0	14.7	--	41.5	27.7	--		2.941
Vinyl bromide	ND	0.588	--	ND	2.57	--		2.941
Acetone	ND	2.94	--	ND	6.98	--		2.941
Trichlorofluoromethane	ND	0.588	--	ND	3.30	--		2.941
Isopropanol	ND	1.47	--	ND	3.61	--		2.941
1,1-Dichloroethene	ND	0.588	--	ND	2.33	--		2.941
Tertiary butyl Alcohol	2.58	1.47	--	7.82	4.46	--		2.941
Methylene chloride	ND	1.47	--	ND	5.11	--		2.941
3-Chloropropene	ND	0.588	--	ND	1.84	--		2.941
Carbon disulfide	ND	0.588	--	ND	1.83	--		2.941
Freon-113	ND	0.588	--	ND	4.51	--		2.941
trans-1,2-Dichloroethene	ND	0.588	--	ND	2.33	--		2.941
1,1-Dichloroethane	ND	0.588	--	ND	2.38	--		2.941
Methyl tert butyl ether	ND	0.588	--	ND	2.12	--		2.941
2-Butanone	ND	1.47	--	ND	4.34	--		2.941
cis-1,2-Dichloroethene	5.05	0.588	--	20.0	2.33	--		2.941



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-06 D

Client ID: SV-3A

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:10

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.47	--	ND	5.30	--		2.941
Chloroform	11.2	0.588	--	54.7	2.87	--		2.941
Tetrahydrofuran	ND	1.47	--	ND	4.34	--		2.941
1,2-Dichloroethane	ND	0.588	--	ND	2.38	--		2.941
n-Hexane	ND	0.588	--	ND	2.07	--		2.941
1,1,1-Trichloroethane	0.694	0.588	--	3.79	3.21	--		2.941
Benzene	ND	0.588	--	ND	1.88	--		2.941
Carbon tetrachloride	ND	0.588	--	ND	3.70	--		2.941
Cyclohexane	ND	0.588	--	ND	2.02	--		2.941
1,2-Dichloropropane	ND	0.588	--	ND	2.72	--		2.941
Bromodichloromethane	ND	0.588	--	ND	3.94	--		2.941
1,4-Dioxane	ND	0.588	--	ND	2.12	--		2.941
Trichloroethene	180	0.588	--	967	3.16	--		2.941
2,2,4-Trimethylpentane	ND	0.588	--	ND	2.75	--		2.941
Heptane	ND	0.588	--	ND	2.41	--		2.941
cis-1,3-Dichloropropene	ND	0.588	--	ND	2.67	--		2.941
4-Methyl-2-pentanone	ND	1.47	--	ND	6.02	--		2.941
trans-1,3-Dichloropropene	ND	0.588	--	ND	2.67	--		2.941
1,1,2-Trichloroethane	ND	0.588	--	ND	3.21	--		2.941
Toluene	3.18	0.588	--	12.0	2.22	--		2.941
2-Hexanone	ND	0.588	--	ND	2.41	--		2.941
Dibromochloromethane	ND	0.588	--	ND	5.01	--		2.941
1,2-Dibromoethane	ND	0.588	--	ND	4.52	--		2.941
Tetrachloroethene	67.9	0.588	--	460	3.99	--		2.941
Chlorobenzene	ND	0.588	--	ND	2.71	--		2.941
Ethylbenzene	2.74	0.588	--	11.9	2.55	--		2.941



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-06 D

Date Collected: 03/12/21 09:10

Client ID: SV-3A

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	4.56	1.18	--	19.8	5.13	--		2.941
Bromoform	ND	0.588	--	ND	6.08	--		2.941
Styrene	ND	0.588	--	ND	2.50	--		2.941
1,1,2,2-Tetrachloroethane	ND	0.588	--	ND	4.04	--		2.941
o-Xylene	2.59	0.588	--	11.2	2.55	--		2.941
4-Ethyltoluene	ND	0.588	--	ND	2.89	--		2.941
1,3,5-Trimethylbenzene	ND	0.588	--	ND	2.89	--		2.941
1,2,4-Trimethylbenzene	ND	0.588	--	ND	2.89	--		2.941
Benzyl chloride	ND	0.588	--	ND	3.04	--		2.941
1,3-Dichlorobenzene	ND	0.588	--	ND	3.54	--		2.941
1,4-Dichlorobenzene	ND	0.588	--	ND	3.54	--		2.941
1,2-Dichlorobenzene	ND	0.588	--	ND	3.54	--		2.941
1,2,4-Trichlorobenzene	ND	0.588	--	ND	4.36	--		2.941
Hexachlorobutadiene	ND	0.588	--	ND	6.27	--		2.941

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	89		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-07

Client ID: SV-4

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:19

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 03/20/21 00:20

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.582	0.200	--	2.88	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	24.4	5.00	--	46.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.86	1.00	--	9.17	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	4.20	0.500	--	10.3	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.782	0.500	--	2.37	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.24	0.500	--	3.66	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-07

Client ID: SV-4

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:19

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	2.18	0.200	--	10.6	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	3.90	0.200	--	21.0	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.589	0.200	--	2.22	0.754	--		1
2-Hexanone	0.216	0.200	--	0.885	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.687	0.200	--	4.66	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.459	0.200	--	1.99	0.869	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-07**Date Collected:** 03/12/21 09:19**Client ID:** SV-4**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.812	0.400	--	3.53	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.430	0.200	--	1.87	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-08
 Client ID: SV-5A
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:50
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/21 00:59
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.395	0.200	--	1.95	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	396	5.00	--	746	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	23.5	1.00	--	55.8	2.38	--		1
Trichlorofluoromethane	0.509	0.200	--	2.86	1.12	--		1
Isopropanol	17.2	0.500	--	42.3	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	3.87	0.500	--	11.7	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.986	0.500	--	2.91	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-08

Client ID: SV-5A

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:50

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.437	0.200	--	2.13	0.977	--		1
Tetrahydrofuran	1.13	0.500	--	3.33	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.217	0.200	--	0.747	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	1.47	0.200	--	7.90	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.47	0.200	--	13.1	0.754	--		1
2-Hexanone	0.396	0.200	--	1.62	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	1.41	0.200	--	9.56	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.01	0.200	--	13.1	0.869	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-08

Date Collected: 03/12/21 09:50

Client ID: SV-5A

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	4.97	0.400	--	21.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.255	0.200	--	1.09	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.88	0.200	--	12.5	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-09
 Client ID: SV-5B
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 10:01
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/21 01:39
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.414	0.200	--	2.05	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	15.2	5.00	--	28.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.30	1.00	--	12.6	2.38	--		1
Trichlorofluoromethane	0.326	0.200	--	1.83	1.12	--		1
Isopropanol	1.62	0.500	--	3.98	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	5.79	0.500	--	17.6	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.640	0.500	--	1.89	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-09

Client ID: SV-5B

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 10:01

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	7.93	0.200	--	38.7	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	0.426	0.200	--	2.68	1.26	--		1
Cyclohexane	0.240	0.200	--	0.826	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	1.06	0.200	--	5.70	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.96	0.200	--	14.9	0.754	--		1
2-Hexanone	1.16	0.200	--	4.75	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	8.82	0.200	--	59.8	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.63	0.200	--	15.8	0.869	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-09

Client ID: SV-5B

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 10:01

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	6.08	0.400	--	26.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.330	0.200	--	1.41	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.43	0.200	--	14.9	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-10
 Client ID: SV-DUP-1
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 00:00
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/21 02:18
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.403	0.200	--	1.99	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	68.2	5.00	--	129	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	120	1.00	--	285	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	6.29	0.500	--	15.5	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.508	0.500	--	1.54	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.403	0.200	--	1.25	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.353	0.200	--	1.43	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.39	0.500	--	4.10	1.47	--		1
cis-1,2-Dichloroethene	0.645	0.200	--	2.56	0.793	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-10

Date Collected: 03/12/21 00:00

Client ID: SV-DUP-1

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.408	0.200	--	1.99	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	0.857	0.200	--	4.68	1.09	--		1
Benzene	0.212	0.200	--	0.677	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	16.9	0.200	--	90.8	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.527	0.200	--	1.99	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	5.60	0.200	--	38.0	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-10

Date Collected: 03/12/21 00:00

Client ID: SV-DUP-1

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	85		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-11
 Client ID: SV-DUP-2
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 00:00
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/21 02:57
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.503	0.200	--	2.49	0.989	--		1
Chloromethane	0.373	0.200	--	0.770	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	42.0	5.00	--	79.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.98	1.00	--	14.2	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	9.86	0.500	--	24.2	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.78	0.500	--	5.40	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.74	0.500	--	5.13	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-11

Date Collected: 03/12/21 00:00

Client ID: SV-DUP-2

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.643	0.200	--	3.14	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	3.03	0.200	--	16.3	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.02	0.200	--	3.84	0.754	--		1
2-Hexanone	0.371	0.200	--	1.52	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.835	0.200	--	5.66	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.790	0.200	--	3.43	0.869	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-11

Date Collected: 03/12/21 00:00

Client ID: SV-DUP-2

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.43	0.400	--	6.21	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.670	0.200	--	2.91	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.347	0.200	--	1.71	0.983	--		1
1,2,4-Trimethylbenzene	0.341	0.200	--	1.68	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-12
 Client ID: IA-1
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:20
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 16:37
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.402	0.200	--	1.99	0.989	--		1
Chloromethane	0.430	0.200	--	0.888	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	15.2	5.00	--	28.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	1.37	0.500	--	3.37	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-12

Client ID: IA-1

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:20

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.275	0.200	--	0.879	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.554	0.200	--	2.09	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-12**Date Collected:** 03/12/21 08:20**Client ID:** IA-1**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	97		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-12

Client ID: IA-1

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:20

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 16:37

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.063	0.020	--	0.396	0.126	--		1
Trichloroethene	0.081	0.020	--	0.435	0.107	--		1
Tetrachloroethene	0.164	0.020	--	1.11	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	97		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-13
 Client ID: IA-2
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:40
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 17:16
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.420	0.200	--	2.08	0.989	--		1
Chloromethane	0.467	0.200	--	0.964	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	237	5.00	--	447	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	19.8	1.00	--	47.0	2.38	--		1
Trichlorofluoromethane	0.224	0.200	--	1.26	1.12	--		1
Isopropanol	2.45	0.500	--	6.02	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-13

Date Collected: 03/12/21 08:40

Client ID: IA-2

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.207	0.200	--	0.730	0.705	--		1
Benzene	0.324	0.200	--	1.04	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.627	0.200	--	2.36	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.284	0.200	--	1.23	0.869	--		1
p/m-Xylene	1.06	0.400	--	4.60	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.304	0.200	--	1.32	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-13**Date Collected:** 03/12/21 08:40**Client ID:** IA-2**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.255	0.200	--	1.25	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-13

Client ID: IA-2

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:40

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 17:16

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Trichloroethene	0.076	0.020	--	0.408	0.107	--		1
Tetrachloroethene	0.116	0.020	--	0.787	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	96		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-14
 Client ID: IA-3
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:09
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 18:34
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.431	0.200	--	2.13	0.989	--		1
Chloromethane	0.479	0.200	--	0.989	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	108	5.00	--	203	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.68	1.00	--	18.2	2.38	--		1
Trichlorofluoromethane	0.229	0.200	--	1.29	1.12	--		1
Isopropanol	2.53	0.500	--	6.22	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.426	0.200	--	2.08	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-14

Client ID: IA-3

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:09

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.364	0.200	--	1.16	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.552	0.200	--	2.08	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.439	0.400	--	1.91	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-14**Date Collected:** 03/12/21 09:09**Client ID:** IA-3**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.334	0.200	--	1.64	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-14**Client ID:** IA-3**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Date Collected:** 03/12/21 09:09**Date Received:** 03/12/21**Field Prep:** Not Specified**Sample Depth:****Matrix:** Air**Analytical Method:** 48,TO-15-SIM**Analytical Date:** 03/19/21 18:34**Analyst:** TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.064	0.020	--	0.403	0.126	--		1
Trichloroethene	0.398	0.020	--	2.14	0.107	--		1
Tetrachloroethene	0.308	0.020	--	2.09	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	94		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-15
 Client ID: IA-4A
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:42
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 19:15
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.408	0.200	--	2.02	0.989	--		1
Chloromethane	0.532	0.200	--	1.10	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	472	5.00	--	889	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	15.3	1.00	--	36.3	2.38	--		1
Trichlorofluoromethane	0.226	0.200	--	1.27	1.12	--		1
Isopropanol	93.4	0.500	--	230	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.521	0.500	--	1.54	1.47	--		1
Ethyl Acetate	0.733	0.500	--	2.64	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-15**Client ID:** IA-4A**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Date Collected:** 03/12/21 09:42**Date Received:** 03/12/21**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.247	0.200	--	0.871	0.705	--		1
Benzene	0.341	0.200	--	1.09	0.639	--		1
Cyclohexane	0.565	0.200	--	1.94	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	8.56	0.200	--	35.1	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.41	0.200	--	5.31	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.442	0.400	--	1.92	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-15**Date Collected:** 03/12/21 09:42**Client ID:** IA-4A**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-15

Client ID: IA-4A

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:42

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 19:15

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.062	0.020	--	0.390	0.126	--		1
Trichloroethene	0.064	0.020	--	0.344	0.107	--		1
Tetrachloroethene	0.153	0.020	--	1.04	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140

Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-16
 Client ID: IA-4B
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:02
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 19:54
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.415	0.200	--	2.05	0.989	--		1
Chloromethane	0.486	0.200	--	1.00	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	104	5.00	--	196	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.58	1.00	--	15.6	2.38	--		1
Trichlorofluoromethane	0.226	0.200	--	1.27	1.12	--		1
Isopropanol	14.3	0.500	--	35.2	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-16

Client ID: IA-4B

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:02

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.337	0.200	--	1.08	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.427	0.200	--	1.75	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.685	0.200	--	2.58	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.261	0.200	--	1.13	0.869	--		1
p/m-Xylene	1.02	0.400	--	4.43	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.300	0.200	--	1.30	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-16**Date Collected:** 03/12/21 08:02**Client ID:** IA-4B**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	96		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-16

Client ID: IA-4B

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:02

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 19:54

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Trichloroethene	0.169	0.020	--	0.908	0.107	--		1
Tetrachloroethene	0.150	0.020	--	1.02	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-17
 Client ID: IA-4C
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:15
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 17:51
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.505	0.200	--	2.50	0.989	--		1
Chloromethane	0.646	0.200	--	1.33	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	822	5.00	--	1550	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	28.4	1.00	--	67.5	2.38	--		1
Trichlorofluoromethane	0.405	0.200	--	2.28	1.12	--		1
Isopropanol	37.2	0.500	--	91.4	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.720	0.500	--	2.12	1.47	--		1
Ethyl Acetate	3.84	0.500	--	13.8	1.80	--		1
Chloroform	0.958	0.200	--	4.68	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-17

Client ID: IA-4C

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:15

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	0.256	0.200	--	1.04	0.809	--		1
n-Hexane	0.217	0.200	--	0.765	0.705	--		1
Benzene	0.366	0.200	--	1.17	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.667	0.200	--	2.73	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.797	0.200	--	3.00	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.426	0.400	--	1.85	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-17**Date Collected:** 03/12/21 08:15**Client ID:** IA-4C**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-17

Client ID: IA-4C

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:15

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 17:51

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.094	0.020	--	0.591	0.126	--		1
Trichloroethene	0.229	0.020	--	1.23	0.107	--		1
Tetrachloroethene	0.376	0.020	--	2.55	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140

Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-17 D

Client ID: IA-4C

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:15

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 03/20/21 08:50

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	958	25.0	--	1810	47.1	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	95		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-18
 Client ID: IA-4D
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:17
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 18:30
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.458	0.200	--	2.26	0.989	--		1
Chloromethane	0.807	0.200	--	1.67	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	0.345	0.200	--	0.763	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	230	5.00	--	433	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	13.2	1.00	--	31.4	2.38	--		1
Trichlorofluoromethane	0.261	0.200	--	1.47	1.12	--		1
Isopropanol	25.2	0.500	--	61.9	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.678	0.500	--	2.00	1.47	--		1
Ethyl Acetate	0.991	0.500	--	3.57	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-18

Client ID: IA-4D

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:17

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.251	0.200	--	0.885	0.705	--		1
Benzene	0.490	0.200	--	1.57	0.639	--		1
Cyclohexane	0.210	0.200	--	0.723	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	2.09	0.200	--	8.57	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.989	0.200	--	3.73	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.493	0.400	--	2.14	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-18**Date Collected:** 03/12/21 08:17**Client ID:** IA-4D**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	100		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-18

Client ID: IA-4D

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:17

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 18:30

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.057	0.020	--	0.387	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	103		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-19
 Client ID: IA-4E
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:12
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 19:49
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.503	0.200	--	2.49	0.989	--		1
Chloromethane	0.472	0.200	--	0.975	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	55.8	5.00	--	105	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.85	1.00	--	11.5	2.38	--		1
Trichlorofluoromethane	0.325	0.200	--	1.83	1.12	--		1
Isopropanol	9.74	0.500	--	23.9	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-19

Client ID: IA-4E

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:12

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.265	0.200	--	0.847	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.429	0.200	--	1.62	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-19**Date Collected:** 03/12/21 09:12**Client ID:** IA-4E**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	93		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-19

Client ID: IA-4E

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:12

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 19:49

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.043	0.020	--	0.292	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	96		60-140

Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-20

Client ID: IA-4F

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:11

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 03/19/21 20:29

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.504	0.200	--	2.49	0.989	--		1
Chloromethane	0.501	0.200	--	1.03	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	109	5.00	--	205	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	18.6	1.00	--	44.2	2.38	--		1
Trichlorofluoromethane	0.430	0.200	--	2.42	1.12	--		1
Isopropanol	18.4	0.500	--	45.2	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.755	0.500	--	2.23	1.47	--		1
Ethyl Acetate	1.02	0.500	--	3.68	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-20

Client ID: IA-4F

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:11

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.209	0.200	--	0.737	0.705	--		1
Benzene	0.290	0.200	--	0.926	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.355	0.200	--	1.45	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.02	0.200	--	3.84	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.354	0.200	--	1.54	0.869	--		1
p/m-Xylene	1.38	0.400	--	5.99	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.238	0.200	--	1.01	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.401	0.200	--	1.74	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-20**Date Collected:** 03/12/21 09:11**Client ID:** IA-4F**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.242	0.200	--	1.19	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-20

Client ID: IA-4F

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:11

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 20:29

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.087	0.020	--	0.547	0.126	--		1
Trichloroethene	0.096	0.020	--	0.516	0.107	--		1
Tetrachloroethene	0.066	0.020	--	0.448	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	95		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-21
 Client ID: IA-4G
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:14
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 21:08
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.502	0.200	--	2.48	0.989	--		1
Chloromethane	0.594	0.200	--	1.23	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	514	5.00	--	969	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	26.4	1.00	--	62.7	2.38	--		1
Trichlorofluoromethane	0.872	0.200	--	4.90	1.12	--		1
Isopropanol	38.2	0.500	--	93.9	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.19	0.500	--	3.51	1.47	--		1
Ethyl Acetate	2.39	0.500	--	8.61	1.80	--		1
Chloroform	0.623	0.200	--	3.04	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-21

Client ID: IA-4G

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:14

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	0.396	0.200	--	1.60	0.809	--		1
n-Hexane	0.202	0.200	--	0.712	0.705	--		1
Benzene	0.423	0.200	--	1.35	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.263	0.200	--	1.08	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.808	0.200	--	3.04	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.583	0.400	--	2.53	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.215	0.200	--	0.934	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-21**Date Collected:** 03/12/21 09:14**Client ID:** IA-4G**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.216	0.200	--	1.06	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-21

Client ID: IA-4G

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:14

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 21:08

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.094	0.020	--	0.591	0.126	--		1
Trichloroethene	0.062	0.020	--	0.333	0.107	--		1
Tetrachloroethene	0.084	0.020	--	0.570	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140

Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-21 D

Client ID: IA-4G

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:14

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 03/20/21 09:28

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	416	12.5	--	784	23.6	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	80		60-140

Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-22

Client ID: IA-4H

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:00

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 03/19/21 21:48

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.497	0.200	--	2.46	0.989	--		1
Chloromethane	0.522	0.200	--	1.08	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	153	5.00	--	288	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.4	1.00	--	24.7	2.38	--		1
Trichlorofluoromethane	0.444	0.200	--	2.50	1.12	--		1
Isopropanol	21.2	0.500	--	52.1	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.575	0.500	--	1.70	1.47	--		1
Ethyl Acetate	0.699	0.500	--	2.52	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-22

Client ID: IA-4H

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:00

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.320	0.200	--	1.02	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.458	0.200	--	1.88	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.657	0.200	--	2.48	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.475	0.400	--	2.06	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-22**Date Collected:** 03/12/21 09:00**Client ID:** IA-4H**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.203	0.200	--	0.998	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	95		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-22

Client ID: IA-4H

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 09:00

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 21:48

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.085	0.020	--	0.535	0.126	--		1
Trichloroethene	0.047	0.020	--	0.253	0.107	--		1
Tetrachloroethene	0.074	0.020	--	0.502	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-23
 Client ID: IA-5
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 10:07
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 22:27
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.492	0.200	--	2.43	0.989	--		1
Chloromethane	0.476	0.200	--	0.983	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	479	5.00	--	903	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.2	1.00	--	24.2	2.38	--		1
Trichlorofluoromethane	1.11	0.200	--	6.24	1.12	--		1
Isopropanol	47.4	0.500	--	117	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.797	0.500	--	2.35	1.47	--		1
Ethyl Acetate	2.47	0.500	--	8.90	1.80	--		1
Chloroform	0.271	0.200	--	1.32	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-23

Client ID: IA-5

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 10:07

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.329	0.200	--	1.05	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.202	0.200	--	0.828	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.742	0.200	--	2.80	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.456	0.400	--	1.98	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-23**Date Collected:** 03/12/21 10:07**Client ID:** IA-5**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.283	0.200	--	1.39	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-23

Client ID: IA-5

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 10:07

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 22:27

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.093	0.020	--	0.585	0.126	--		1
Trichloroethene	0.055	0.020	--	0.296	0.107	--		1
Tetrachloroethene	0.078	0.020	--	0.529	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-24
 Client ID: IA-DUP-1
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 00:00
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 23:07
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.497	0.200	--	2.46	0.989	--		1
Chloromethane	0.524	0.200	--	1.08	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	438	5.00	--	825	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	16.4	1.00	--	39.0	2.38	--		1
Trichlorofluoromethane	0.336	0.200	--	1.89	1.12	--		1
Isopropanol	104	0.500	--	256	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.519	0.500	--	1.53	1.47	--		1
Ethyl Acetate	0.955	0.500	--	3.44	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-24

Client ID: IA-DUP-1

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 00:00

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.242	0.200	--	0.853	0.705	--		1
Benzene	0.336	0.200	--	1.07	0.639	--		1
Cyclohexane	0.533	0.200	--	1.83	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	8.44	0.200	--	34.6	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.37	0.200	--	5.16	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.481	0.400	--	2.09	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-24**Date Collected:** 03/12/21 00:00**Client ID:** IA-DUP-1**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	97		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-24

Client ID: IA-DUP-1

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 00:00

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 23:07

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--		1
Trichloroethene	0.069	0.020	--	0.371	0.107	--		1
Tetrachloroethene	0.153	0.020	--	1.04	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	101		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-25
 Client ID: IA-DUP-2
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 00:00
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/21 23:46
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.491	0.200	--	2.43	0.989	--		1
Chloromethane	0.473	0.200	--	0.977	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	467	5.00	--	880	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.1	1.00	--	24.0	2.38	--		1
Trichlorofluoromethane	1.06	0.200	--	5.96	1.12	--		1
Isopropanol	46.4	0.500	--	114	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.838	0.500	--	2.47	1.47	--		1
Ethyl Acetate	2.38	0.500	--	8.58	1.80	--		1
Chloroform	0.257	0.200	--	1.26	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-25

Date Collected: 03/12/21 00:00

Client ID: IA-DUP-2

Date Received: 03/12/21

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.212	0.200	--	0.747	0.705	--		1
Benzene	0.331	0.200	--	1.06	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.204	0.200	--	0.836	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.739	0.200	--	2.78	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.431	0.400	--	1.87	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-25**Date Collected:** 03/12/21 00:00**Client ID:** IA-DUP-2**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.246	0.200	--	1.21	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	97		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-25

Client ID: IA-DUP-2

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 00:00

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 23:46

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	0.054	0.020	--	0.290	0.107	--		1
Tetrachloroethene	0.077	0.020	--	0.522	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	100		60-140



Project Name: 100 SOUTH 4TH ST.**Project Number:** 13817**Lab Number:** L2112425**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-26
 Client ID: OA-1
 Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:59
 Date Received: 03/12/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/21 00:25
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.487	0.200	--	2.41	0.989	--		1
Chloromethane	0.432	0.200	--	0.892	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	10.3	5.00	--	19.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.69	1.00	--	6.39	2.38	--		1
Trichlorofluoromethane	0.301	0.200	--	1.69	1.12	--		1
Isopropanol	2.09	0.500	--	5.14	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-26

Client ID: OA-1

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:59

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.234	0.200	--	0.748	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.387	0.200	--	1.46	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS****Lab ID:** L2112425-26**Date Collected:** 03/12/21 08:59**Client ID:** OA-1**Date Received:** 03/12/21**Sample Location:** 100 SOUTH 4TH ST, BROOKLYN**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	95		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**SAMPLE RESULTS**

Lab ID: L2112425-26

Client ID: OA-1

Sample Location: 100 SOUTH 4TH ST, BROOKLYN

Date Collected: 03/12/21 08:59

Date Received: 03/12/21

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/20/21 00:25

Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.078	0.020	--	0.491	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.048	0.020	--	0.325	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140



Project Name: 100 SOUTH 4TH ST.

Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/19/21 13:36

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-16 Batch: WG1476560-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: 100 SOUTH 4TH ST.

Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/19/21 13:36

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-16 Batch: WG1476560-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: 100 SOUTH 4TH ST.

Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/19/21 13:36

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-16 Batch: WG1476560-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 13:36

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 12-16 Batch: WG1476562-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: 100 SOUTH 4TH ST.

Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/19/21 14:49

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 17-26 Batch: WG1476567-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: 100 SOUTH 4TH ST.

Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/19/21 14:49

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 17-26 Batch: WG1476567-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: 100 SOUTH 4TH ST.

Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/19/21 14:49

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 17-26 Batch: WG1476567-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/21 15:29

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 17-26 Batch: WG1476568-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-16 Batch: WG1476560-3								
Dichlorodifluoromethane	99		-		70-130	-		
Chloromethane	91		-		70-130	-		
Freon-114	97		-		70-130	-		
Vinyl chloride	97		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Bromomethane	96		-		70-130	-		
Chloroethane	93		-		70-130	-		
Ethanol	90		-		40-160	-		
Vinyl bromide	92		-		70-130	-		
Acetone	77		-		40-160	-		
Trichlorofluoromethane	94		-		70-130	-		
Isopropanol	77		-		40-160	-		
1,1-Dichloroethene	98		-		70-130	-		
Tertiary butyl Alcohol	98		-		70-130	-		
Methylene chloride	99		-		70-130	-		
3-Chloropropene	99		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
Freon-113	95		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	101		-		70-130	-		
2-Butanone	93		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-16 Batch: WG1476560-3								
Ethyl Acetate	86		-		70-130	-		
Chloroform	101		-		70-130	-		
Tetrahydrofuran	95		-		70-130	-		
1,2-Dichloroethane	96		-		70-130	-		
n-Hexane	101		-		70-130	-		
1,1,1-Trichloroethane	97		-		70-130	-		
Benzene	96		-		70-130	-		
Carbon tetrachloride	102		-		70-130	-		
Cyclohexane	104		-		70-130	-		
1,2-Dichloropropane	96		-		70-130	-		
Bromodichloromethane	103		-		70-130	-		
1,4-Dioxane	104		-		70-130	-		
Trichloroethene	99		-		70-130	-		
2,2,4-Trimethylpentane	104		-		70-130	-		
Heptane	96		-		70-130	-		
cis-1,3-Dichloropropene	110		-		70-130	-		
4-Methyl-2-pentanone	101		-		70-130	-		
trans-1,3-Dichloropropene	96		-		70-130	-		
1,1,2-Trichloroethane	100		-		70-130	-		
Toluene	94		-		70-130	-		
2-Hexanone	108		-		70-130	-		
Dibromochloromethane	103		-		70-130	-		
1,2-Dibromoethane	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-16 Batch: WG1476560-3								
Tetrachloroethene	98		-		70-130	-		
Chlorobenzene	100		-		70-130	-		
Ethylbenzene	102		-		70-130	-		
p/m-Xylene	101		-		70-130	-		
Bromoform	104		-		70-130	-		
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	105		-		70-130	-		
o-Xylene	103		-		70-130	-		
4-Ethyltoluene	100		-		70-130	-		
1,3,5-Trimethylbenzene	103		-		70-130	-		
1,2,4-Trimethylbenzene	108		-		70-130	-		
Benzyl chloride	98		-		70-130	-		
1,3-Dichlorobenzene	104		-		70-130	-		
1,4-Dichlorobenzene	103		-		70-130	-		
1,2-Dichlorobenzene	104		-		70-130	-		
1,2,4-Trichlorobenzene	108		-		70-130	-		
Hexachlorobutadiene	112		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 12-16 Batch: WG1476562-3								
Vinyl chloride	92		-		70-130	-		25
1,1-Dichloroethene	97		-		70-130	-		25
cis-1,2-Dichloroethene	99		-		70-130	-		25
1,1,1-Trichloroethane	93		-		70-130	-		25
Carbon tetrachloride	99		-		70-130	-		25
Trichloroethene	93		-		70-130	-		25
Tetrachloroethene	96		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 17-26 Batch: WG1476567-3								
Dichlorodifluoromethane	100		-		70-130	-		
Chloromethane	78		-		70-130	-		
Freon-114	90		-		70-130	-		
Vinyl chloride	84		-		70-130	-		
1,3-Butadiene	80		-		70-130	-		
Bromomethane	96		-		70-130	-		
Chloroethane	86		-		70-130	-		
Ethanol	64		-		40-160	-		
Vinyl bromide	95		-		70-130	-		
Acetone	82		-		40-160	-		
Trichlorofluoromethane	120		-		70-130	-		
Isopropanol	74		-		40-160	-		
1,1-Dichloroethene	102		-		70-130	-		
Tertiary butyl Alcohol	76		-		70-130	-		
Methylene chloride	92		-		70-130	-		
3-Chloropropene	94		-		70-130	-		
Carbon disulfide	88		-		70-130	-		
Freon-113	106		-		70-130	-		
trans-1,2-Dichloroethene	97		-		70-130	-		
1,1-Dichloroethane	100		-		70-130	-		
Methyl tert butyl ether	90		-		70-130	-		
2-Butanone	90		-		70-130	-		
cis-1,2-Dichloroethene	103		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 17-26 Batch: WG1476567-3								
Ethyl Acetate	96		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	86		-		70-130	-		
1,2-Dichloroethane	107		-		70-130	-		
n-Hexane	88		-		70-130	-		
1,1,1-Trichloroethane	102		-		70-130	-		
Benzene	85		-		70-130	-		
Carbon tetrachloride	107		-		70-130	-		
Cyclohexane	88		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	88		-		70-130	-		
Trichloroethene	96		-		70-130	-		
2,2,4-Trimethylpentane	91		-		70-130	-		
Heptane	86		-		70-130	-		
cis-1,3-Dichloropropene	92		-		70-130	-		
4-Methyl-2-pentanone	84		-		70-130	-		
trans-1,3-Dichloropropene	82		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Toluene	89		-		70-130	-		
2-Hexanone	80		-		70-130	-		
Dibromochloromethane	109		-		70-130	-		
1,2-Dibromoethane	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 17-26 Batch: WG1476567-3								
Tetrachloroethene	97		-		70-130	-		
Chlorobenzene	95		-		70-130	-		
Ethylbenzene	99		-		70-130	-		
p/m-Xylene	102		-		70-130	-		
Bromoform	118		-		70-130	-		
Styrene	98		-		70-130	-		
1,1,2,2-Tetrachloroethane	102		-		70-130	-		
o-Xylene	105		-		70-130	-		
4-Ethyltoluene	103		-		70-130	-		
1,3,5-Trimethylbenzene	106		-		70-130	-		
1,2,4-Trimethylbenzene	110		-		70-130	-		
Benzyl chloride	101		-		70-130	-		
1,3-Dichlorobenzene	109		-		70-130	-		
1,4-Dichlorobenzene	113		-		70-130	-		
1,2-Dichlorobenzene	110		-		70-130	-		
1,2,4-Trichlorobenzene	120		-		70-130	-		
Hexachlorobutadiene	119		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 17-26 Batch: WG1476568-3								
Vinyl chloride	84		-		70-130	-		25
1,1-Dichloroethene	99		-		70-130	-		25
cis-1,2-Dichloroethene	99		-		70-130	-		25
1,1,1-Trichloroethane	97		-		70-130	-		25
Carbon tetrachloride	102		-		70-130	-		25
Trichloroethene	91		-		70-130	-		25
Tetrachloroethene	92		-		70-130	-		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-16 QC Batch ID: WG1476560-5 QC Sample: L2112425-13 Client ID: IA-2						
Dichlorodifluoromethane	0.420	0.419	ppbV	0		25
Chloromethane	0.467	0.459	ppbV	2		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	237	209	ppbV	13		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	19.8	19.7	ppbV	1		25
Trichlorofluoromethane	0.224	0.226	ppbV	1		25
Isopropanol	2.45	2.50	ppbV	2		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-16 QC Batch ID: WG1476560-5 QC Sample: L2112425-13 Client ID: IA-2						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.207	0.203	ppbV	2		25
Benzene	0.324	0.325	ppbV	0		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.627	0.623	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.284	0.289	ppbV	2		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-16 QC Batch ID: WG1476560-5 QC Sample: L2112425-13 Client ID: IA-2						
p/m-Xylene	1.06	1.07	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.304	0.310	ppbV	2		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.255	0.253	ppbV	1		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 12-16 QC Batch ID: WG1476562-5 QC Sample: L2112425-13 Client ID: IA-2						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.067	0.067	ppbV	0		25
Trichloroethene	0.076	0.075	ppbV	1		25
Tetrachloroethene	0.116	0.116	ppbV	0		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 17-26 QC Batch ID: WG1476567-5 QC Sample: L2112425-18 Client ID: IA-4D						
Dichlorodifluoromethane	0.458	0.471	ppbV	3		25
Chloromethane	0.807	0.829	ppbV	3		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	0.345	0.346	ppbV	0		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	230	232	ppbV	1		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	13.2	13.3	ppbV	1		25
Trichlorofluoromethane	0.261	0.266	ppbV	2		25
Isopropanol	25.2	25.3	ppbV	0		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.678	0.668	ppbV	1		25
Ethyl Acetate	0.991	1.03	ppbV	4		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 17-26 QC Batch ID: WG1476567-5 QC Sample: L2112425-18 Client ID: IA-4D						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.251	0.254	ppbV	1		25
Benzene	0.490	0.484	ppbV	1		25
Cyclohexane	0.210	0.208	ppbV	1		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	2.09	2.07	ppbV	1		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.989	0.977	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 100 SOUTH 4TH ST.

Project Number: 13817

Lab Number: L2112425

Report Date: 03/22/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 17-26 QC Batch ID: WG1476567-5 QC Sample: L2112425-18 Client ID: IA-4D						
p/m-Xylene	0.493	0.501	ppbV	2		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 17-26 QC Batch ID: WG1476568-5 QC Sample: L2112425-18 Client ID: IA-4D						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.073	0.078	ppbV	7		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	0.057	0.062	ppbV	8		25

Project Name: 100 SOUTH 4TH ST.

Serial_No:03222117:06
Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2112425-01	SV-1A	0928	Flow 4	03/10/21	344971		-	-	-	Pass	3.0	3.2	6
L2112425-01	SV-1A	3378	6.0L Can	03/10/21	344971	L2110059-03	Pass	-29.4	-7.6	-	-	-	-
L2112425-02	SV-1B	01383	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	2.9	3
L2112425-02	SV-1B	1889	6.0L Can	03/10/21	344971	L2110320-06	Pass	-29.6	-2.7	-	-	-	-
L2112425-03	SV-2A	01452	Flow 4	03/10/21	344971		-	-	-	Pass	3.0	3.0	0
L2112425-03	SV-2A	1556	6.0L Can	03/10/21	344971	L2110059-03	Pass	-29.5	-8.1	-	-	-	-
L2112425-04	SV-2B	0284	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	2.8	7
L2112425-04	SV-2B	3078	6.0L Can	03/10/21	344971	L2110586-07	Pass	-29.3	-7.2	-	-	-	-
L2112425-05	SV-3B	01612	Flow 4	03/10/21	344971		-	-	-	Pass	3.0	3.2	6
L2112425-05	SV-3B	2914	6.0L Can	03/10/21	344971	L2110320-06	Pass	-29.0	0.0	-	-	-	-
L2112425-06	SV-3A	01178	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.0	0
L2112425-06	SV-3A	2668	6.0L Can	03/10/21	344971	L2110320-06	Pass	-29.4	-6.6	-	-	-	-
L2112425-07	SV-4	01815	Flow 4	03/10/21	344971		-	-	-	Pass	3.0	3.0	0
L2112425-07	SV-4	950	6.0L Can	03/10/21	344971	L2110059-04	Pass	-29.6	-2.8	-	-	-	-
L2112425-08	SV-5A	0397	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.0	0

Project Name: 100 SOUTH 4TH ST.

Serial_No:03222117:06
Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2112425-08	SV-5A	2485	6.0L Can	03/10/21	344971	L2110059-04	Pass	-29.6	-7.5	-	-	-	-
L2112425-09	SV-5B	0072	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.1	3
L2112425-09	SV-5B	2881	6.0L Can	03/10/21	344971	L2110928-04	Pass	-29.5	-10.2	-	-	-	-
L2112425-10	SV-DUP-1	01782	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.2	6
L2112425-10	SV-DUP-1	3333	6.0L Can	03/10/21	344971	L2110059-03	Pass	-29.7	-5.9	-	-	-	-
L2112425-11	SV-DUP-2	0550	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.2	6
L2112425-11	SV-DUP-2	3299	6.0L Can	03/10/21	344971	L2110059-04	Pass	-29.6	-6.2	-	-	-	-
L2112425-12	IA-1	0919	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	2.7	11
L2112425-12	IA-1	2905	6.0L Can	03/10/21	344971	L2110320-06	Pass	-29.6	-8.7	-	-	-	-
L2112425-13	IA-2	01398	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	4.6	42
L2112425-13	IA-2	1623	6.0L Can	03/10/21	344971	L2110320-06	Pass	-29.7	-5.6	-	-	-	-
L2112425-14	IA-3	01395	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.0	0
L2112425-14	IA-3	3015	6.0L Can	03/10/21	344971	L2110320-06	Pass	-28.7	-7.1	-	-	-	-
L2112425-15	IA-4A	01405	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.5	15
L2112425-15	IA-4A	2651	6.0L Can	03/10/21	344971	L2110320-06	Pass	-29.4	-10.9	-	-	-	-

Project Name: 100 SOUTH 4TH ST.

Serial_No:03222117:06
Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2112425-16	IA-4B	0846	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.8	24
L2112425-16	IA-4B	2098	6.0L Can	03/10/21	344971	L2110059-04	Pass	-29.6	-4.7	-	-	-	-
L2112425-17	IA-4C	0679	Flow 4	03/10/21	344971		-	-	-	Pass	3.0	3.1	3
L2112425-17	IA-4C	3261	6.0L Can	03/10/21	344971	L2110059-04	Pass	-29.7	-7.5	-	-	-	-
L2112425-18	IA-4D	01488	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	5.4	57
L2112425-18	IA-4D	2958	6.0L Can	03/10/21	344971	L2110059-04	Pass	-29.5	0.0	-	-	-	-
L2112425-19	IA-4E	0158	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.6	18
L2112425-19	IA-4E	2694	6.0L Can	03/10/21	344971	L2110059-03	Pass	-29.6	-6.2	-	-	-	-
L2112425-20	IA-4F	0027	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.0	0
L2112425-20	IA-4F	3289	6.0L Can	03/10/21	344971	L2110059-03	Pass	-29.7	-8.3	-	-	-	-
L2112425-21	IA-4G	01301	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.1	3
L2112425-21	IA-4G	762	6.0L Can	03/10/21	344971	L2110059-04	Pass	-29.5	-11.6	-	-	-	-
L2112425-22	IA-4H	02061	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	2.7	11
L2112425-22	IA-4H	774	6.0L Can	03/10/21	344971	L2110059-03	Pass	-29.5	-8.4	-	-	-	-
L2112425-23	IA-5	01460	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.3	10

Project Name: 100 SOUTH 4TH ST.

Serial_No:03222117:06
Lab Number: L2112425

Project Number: 13817

Report Date: 03/22/21

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2112425-23	IA-5	1866	6.0L Can	03/10/21	344971	L2110059-03	Pass	-29.6	-4.5	-	-	-	-
L2112425-24	IA-DUP-1	0124	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.1	3
L2112425-24	IA-DUP-1	3346	6.0L Can	03/10/21	344971	L2110059-04	Pass	-29.5	-9.0	-	-	-	-
L2112425-25	IA-DUP-2	0482	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.0	0
L2112425-25	IA-DUP-2	1812	6.0L Can	03/10/21	344971	L2110059-04	Pass	-29.5	-8.8	-	-	-	-
L2112425-26	OA-1	01038	Flow 5	03/10/21	344971		-	-	-	Pass	3.0	3.2	6
L2112425-26	OA-1	2568	6.0L Can	03/10/21	344971	L2110320-06	Pass	-29.4	-6.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-03
Client ID: CAN 3292 SHELF 45
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/02/21 18:43
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-03
Client ID: CAN 3292 SHELF 45
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-03
Client ID: CAN 3292 SHELF 45
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-03
Client ID: CAN 3292 SHELF 45
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2110059**Project Number:** CANISTER QC BAT**Report Date:** 03/22/21**Air Canister Certification Results**

Lab ID: L2110059-03

Date Collected: 03/01/21 16:00

Client ID: CAN 3292 SHELF 45

Date Received: 03/02/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-03
Client ID: CAN 3292 SHELF 45
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/02/21 18:43
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-03
Client ID: CAN 3292 SHELF 45
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-03
Client ID: CAN 3292 SHELF 45
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	85		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-04
Client ID: CAN 772 SHELF 46
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/02/21 19:24
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-04
Client ID: CAN 772 SHELF 46
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-04
Client ID: CAN 772 SHELF 46
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-04
Client ID: CAN 772 SHELF 46
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-04
 Client ID: CAN 772 SHELF 46
 Sample Location:

Date Collected: 03/01/21 16:00
 Date Received: 03/02/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-04
Client ID: CAN 772 SHELF 46
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/02/21 19:24
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-04
Client ID: CAN 772 SHELF 46
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110059
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110059-04
Client ID: CAN 772 SHELF 46
Sample Location:

Date Collected: 03/01/21 16:00
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	85		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110320
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110320-06
Client ID: CAN 1969 SHELF 51
Sample Location:

Date Collected: 03/03/21 09:00
Date Received: 03/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/04/21 08:22
Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110320
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110320-06
Client ID: CAN 1969 SHELF 51
Sample Location:

Date Collected: 03/03/21 09:00
Date Received: 03/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110320
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110320-06
Client ID: CAN 1969 SHELF 51
Sample Location:

Date Collected: 03/03/21 09:00
Date Received: 03/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2110320**Project Number:** CANISTER QC BAT**Report Date:** 03/22/21**Air Canister Certification Results****Lab ID:** L2110320-06**Date Collected:** 03/03/21 09:00**Client ID:** CAN 1969 SHELF 51**Date Received:** 03/03/21**Sample Location:****Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110320
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110320-06
 Client ID: CAN 1969 SHELF 51
 Sample Location:

Date Collected: 03/03/21 09:00
 Date Received: 03/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110320
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110320-06
Client ID: CAN 1969 SHELF 51
Sample Location:

Date Collected: 03/03/21 09:00
Date Received: 03/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/04/21 08:22
Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110320
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110320-06
Client ID: CAN 1969 SHELF 51
Sample Location:

Date Collected: 03/03/21 09:00
Date Received: 03/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2110320**Project Number:** CANISTER QC BAT**Report Date:** 03/22/21**Air Canister Certification Results**

Lab ID: L2110320-06

Date Collected: 03/03/21 09:00

Client ID: CAN 1969 SHELF 51

Date Received: 03/03/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	83		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	84		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110586
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110586-07
Client ID: CAN 790 SHELF 30
Sample Location:

Date Collected: 03/04/21 11:00
Date Received: 03/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/06/21 21:17
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110586
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110586-07
Client ID: CAN 790 SHELF 30
Sample Location:

Date Collected: 03/04/21 11:00
Date Received: 03/04/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110586
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110586-07
Client ID: CAN 790 SHELF 30
Sample Location:

Date Collected: 03/04/21 11:00
Date Received: 03/04/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110586
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110586-07
Client ID: CAN 790 SHELF 30
Sample Location:

Date Collected: 03/04/21 11:00
Date Received: 03/04/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2110586**Project Number:** CANISTER QC BAT**Report Date:** 03/22/21**Air Canister Certification Results**

Lab ID: L2110586-07

Date Collected: 03/04/21 11:00

Client ID: CAN 790 SHELF 30

Date Received: 03/04/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110586
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110586-07
Client ID: CAN 790 SHELF 30
Sample Location:

Date Collected: 03/04/21 11:00
Date Received: 03/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/06/21 21:17
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110586
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110586-07
Client ID: CAN 790 SHELF 30
Sample Location:

Date Collected: 03/04/21 11:00
Date Received: 03/04/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110586
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110586-07
Client ID: CAN 790 SHELF 30
Sample Location:

Date Collected: 03/04/21 11:00
Date Received: 03/04/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110928
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110928-04
Client ID: CAN 1648 SHELF 57
Sample Location:

Date Collected: 03/04/21 16:00
Date Received: 03/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 03/07/21 01:09
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110928
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110928-04
Client ID: CAN 1648 SHELF 57
Sample Location:

Date Collected: 03/04/21 16:00
Date Received: 03/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110928
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110928-04
Client ID: CAN 1648 SHELF 57
Sample Location:

Date Collected: 03/04/21 16:00
Date Received: 03/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110928
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110928-04
Client ID: CAN 1648 SHELF 57
Sample Location:

Date Collected: 03/04/21 16:00
Date Received: 03/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2110928**Project Number:** CANISTER QC BAT**Report Date:** 03/22/21**Air Canister Certification Results**

Lab ID: L2110928-04

Date Collected: 03/04/21 16:00

Client ID: CAN 1648 SHELF 57

Date Received: 03/05/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110928
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110928-04
Client ID: CAN 1648 SHELF 57
Sample Location:

Date Collected: 03/04/21 16:00
Date Received: 03/05/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 03/07/21 01:09
Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2110928
Report Date: 03/22/21

Air Canister Certification Results

Lab ID: L2110928-04
Client ID: CAN 1648 SHELF 57
Sample Location:

Date Collected: 03/04/21 16:00
Date Received: 03/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2110928**Project Number:** CANISTER QC BAT**Report Date:** 03/22/21**Air Canister Certification Results**

Lab ID: L2110928-04

Date Collected: 03/04/21 16:00

Client ID: CAN 1648 SHELF 57

Date Received: 03/05/21

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2112425-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-04A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-05A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-08A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-09A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-10A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-11A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2112425-12A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2112425-13A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2112425-14A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2112425-15A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2112425-16A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2112425-17A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2112425-18A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2112425-19A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2112425-20A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2112425-21A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2112425-22A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2112425-23A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: 100 SOUTH 4TH ST.
Project Number: 13817

Serial_No:03222117:06
Lab Number: L2112425
Report Date: 03/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2112425-24A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2112425-25A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2112425-26A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**Footnotes**

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: 100 SOUTH 4TH ST.**Lab Number:** L2112425**Project Number:** 13817**Report Date:** 03/22/21**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: 100 SOUTH 4TH ST.
Project Number: 13817

Lab Number: L2112425
Report Date: 03/22/21

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 18

Department: **Quality Assurance**

Published Date: 2/16/2021 5:32:02 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 1 OF 3

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Impact Environmental

Address: 170 Keyland Court

Phone: 631-269-8200

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: 100 South 4th St.

Project Location: 100 South 4th St, Brooklyn

Project #: 13817

Project Manager: Chris C.

ALPHA Quote #:

Turn-Around Time

☒ Standard☐ RUSH (only confirmed if pre-approved)

Date Due:

Time:

Date Rec'd in Lab:

3/13/21

ALPHA Job #:

L2112425

Report Information - Data Deliverables

☐ FAX☐ ADEX

Criteria Checker:

(Default based on Regulatory Criteria indicated)

Other Formats:

☐ EMAIL (standard pdf report)☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed

Program

Res / Comm

ANALYSIS

☐TO-15
TO-15 SIM
APH
Subtract Non-petroleum HCs
Fixed Gases
Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH	Subs	Fixed Gas	Sulfides & Mercaptans		Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum														
12425-01	SV-1A	3/12	9:15	8:29	-30.87	-7.27	SV	LR	6	3378	0928	Y								
02	SV-1B	3/12	9:17	8:25	-30.69	-6.91	SV	LR	6	1889	01383	Y								
03	SV-2A	3/12	9:12	8:40	-30.68	-7.48	SV	LR	6	1556	01452	Y								
04	SV-2B	3/12	9:19	8:48	-30.69	-5.60	SV	LR	6	3078	0284	Y								
05	SV-3AB	3/12	9:11	9:00	-29.69	-6.87	SV	LR	6	2914	01612	Y								
06	SV-3BA	3/12	9:07	9:10	-30.54	-7.84	SV	LR	6	2668	01178	X								
07	SV-4	3/12	9:39	9:19	-29.61	-4.71	SV	LR	6	9500	01815	Y								
08	SV-5A	3/12	9:25	9:50	-30.78	-8.62	SV	LR	6	2485	0397	X								
09	SV-5B	3/12	9:35	10:01	-30.62	-11.33	SV	LR	6	2881	0072	X								
10	SV-Dup-1	3/12	*		-30.88	-7.33	SV	LR	6	3333	01782	X								

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)

SV = Soil Vapor/Landfill Gas/SVE

Other = Please Specify

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



AIR ANALYSIS

PAGE 2 OF 3

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Impact
Address: 170 Keyland St.

Phone: 631-269-8806

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: 100 South 4th St.
Project Location: 100 South 4th St.
Project #: 13817
Project Manager: Chris C.
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Time:

Date Rec'd in Lab: 3/13/21

ALPHA Job #: L2112425

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION										TO-15 TO-15 SIM APH Fixed Gases Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller		
11	SV-DUP-2	3/12	-	-	31.90	-7.10	IA SV	LR	6	3299	0550	x	
12	IA-1	3/12	9:17	8:20	-31.09	-4.07	IA	LR	6	2905	0919	x	
13	IA-2	3/12	9:18	8:40	-30.60	-6.07	IA	LR	6	1623	01589	x	
14	IA-3	3/12	9:08	9:09	-25.50	-6.60	IA	LR	6	3015	01395	x	
15	IA-4A	3/12	9:36	9:42	-30.32	-7.82	IA	LR	6	2651	01405	x	
16	IA-4B	3/12	8:16	8:02	-31.05	-5.09	IA	LR	6	2078	0846	x	
17	IA-4C	3/12	8:12	8:15	-30.99	-4.37	IA	LR	6	3261	0679	x	
18	IA-4D	3/12	8:14	8:17	-30.76	-0.09	IA	LR	6	2958	01488	x	
19	IA-4E	3/12	8:48	9:12	-30.55	-7.99	IA	LR	6	2694	0158	x	
20	IA-4F	3/12	8:50	9:11	-31.17	-8.09	IA	LR	6	3289	0027	x	

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

