SOIL VAPOR INVESTIGATION

Klein Cleaners
69 Birch Hill Road
Locust Valley, New York

September 2017

Prepared For:

Mr. Samuel Jun
Mayflower Enterprises
c/o
John J. Randall, IV Esq.
222 Birch Hill Road
Locust Valley, NY 11560

Prepared by:

CA RICH Consultants, Inc.
17 Dupont Street
Plainview, NY 11803-1614
(516) 576-8844

CA RICH
ENVIRONMENTAL SPECIALISTS

September 20, 2017

MR. SAMUEL JUN
Mayflowers Enterprises
c/o
John J. Randall, IV, Esq.
222 Birch Hill Road
Locust Valley, NY 11560

Re: Soil Vapor Investigation Report
Klein Cleaners
69 Birch Hill Road
Locust Valley, New York

Dear Mr. Randall:

Enclosed please find the Soil Vapor Investigation Report prepared by CA RICH Consultants, Inc. for the above-referenced Property. The air sampling was completed in accordance with New York State Department of Health guidelines.

If you have any questions pertaining to this report, please feel free to contact either of the undersigned.

Sincerely,

CA RICH CONSULTANTS, INC.

Jason T. Cooper

Jason T. Cooper, PG, CPG, EP
Senior Project Manager

Reviewed by

Charles Rich, PG, CPG, CSBA, EP
President

ECC: Gary Bowitch, Esq.
Frederick Eisenbud, Esq.
Paul Stewart, Advanced Cleanup Technologies

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1.0 INTRODUCTION

The following Soil Vapor Investigation Report was prepared by CA RICH Consultants, Inc. (CA RICH) of Plainview, New York, on behalf of the entity ownership, Mayflower Enterprises, for the Property located at 69 Birch Hill Road in Locust Valley, New York. (hereinafter referred to as "the Site" or "subject Property"). This report documents soil vapor testing activities completed by CA RICH at the Site, which is currently occupied by Klein Cleaners.

The soil vapor sampling at the subject Property was conducted in response to the April 2017 Vapor Intrusion Investigation Report prepared by Advanced Cleanup Technologies for the neighboring retail plaza located at 83-91 Birch Hill Road.

2.0 PROPERTY DESCRIPTION

The subject Property is located at 69 Birch Hill Road in Locust Valley, New York. The Site is located on the west side of Birch Hill Road and is situated between Cherry Street to the north and Forest Avenue to the south. The Property consists of a one-story building that is constructed slab-on-grade and is occupied by Klein Cleaners. A Property Location Map is presented as Figure 1.

2.1 Site Geology

According to maps and reports published by the United States Geological Survey (USGS), the Property is situated at approximately 132 feet above mean sea level and is underlain by unconsolidated glaciofluvial deposits of Upper Cretaceous and/or Quaternary age consisting of sands, silts, clays, gravel, cobbles and boulders. These deposits rest unconformably on buried crystalline bedrock of early Paleozoic and/or Precambrian age. The site-specific elevation of the water table and horizontal direction of groundwater flow has not been determined for the subject Property. The precise groundwater flow direction can only be determined with further hydrogeological subsurface study, which is beyond the scope of this investigation. The topographic gradient at the Site displays a slight downward slope from north to south. In addition, the elevation of the land situated immediately to the west of the subject Property is substantially higher than the Property itself and the lower-lying flat parking lot grade and improvements at the property.

3.0 PREVIOUS REPORTS

The Property (69 Birch Hill Road) and the adjoining retail plaza property at 83-91 Birch Hill Road to the north have been the subject of previous subsurface investigations. These investigations include the following:

1. Preliminary Phase II Subsurface Investigation Report, 69 Birch Hill Road, Locust Valley, New York, prepared by Odelphi Environmental Inc., April 2013. This investigation included the sampling of two shallow building interior soil samples from nearby the dry cleaning machine and one exterior soil boring to the northeast of the building. Soil sample S-4 was collected behind (west of) the dry cleaning machine from a depth of 2-feet below grade and PCE was detected at 1.1 ppb at this location. Soil sample S-3 was collected in front of the dry cleaning machine (east) also from a depth of 2-feet below grade. Here, at S-3, PCE was detected at 930 ppb. Soil sample S-1 was collected outside and northeast of the building near the northern Property boundary. This sample was collected from a depth of approximately 11-feet below grade and found to be absent of PCE (non-detect).

2. Phase II Environmental Site Assessment, 83-91 Birch Hill Road, Locust Valley, New York, prepared by Gannett Fleming, June 2016. This investigation included collection and analysis of four soil samples, four sub-slab soil vapor samples, and four indoor air samples. The soil samples were collected outside throughout the parking lot and did not identify any elevated PCE or benzene, toluene, ethylbenzene or xylenes (collectively referred to as BTEX). However, both the interior sub-slab soil vapor and indoor air samples identified elevated levels of PCE. The BTEX concentrations for the sub-slab and indoor air samples were not provided to us for review.

3. Vapor Intrusion Investigation, 83-91 Birch Hill Road, Locust Valley, New York, prepared by Advanced Cleanup Technologies, April 2017. This relatively-recent investigation included collection and analyses of two outside soil vapor samples, two sub-slab soil vapor samples and two indoor air samples. PCE was detected in the outside soil vapor samples, but it is unknown whether BTEX was also present in the soil vapor as this data was not provided to us for review. However, both the two interior sub-slab soil vapor and indoor air samples were all found to contain PCE and BTEX.

Selected information from these prior reports is summarized on Figure 5. However, it should be recognized that the selected sampling data presented on Figure 5 was collected at different times from different firms under differing field conditions and is not necessarily directly correlatable, but is, nevertheless, useful for general comparison purposes. The June 2016 Phase II

Environmental Site Assessment by Gannett Fleming, cited an earlier report identified as a 'Limited Phase II Environmental Site Assessment', 83-91 Birch Hill Road, Locust Valley, New York, prepared by Gannett Fleming in March 2016. This March 2016 report was not provided for review.

4.0 SCOPE OF WORK

4.1 Sub-Slab and Soil Vapor Sampling

On August 3, 2017, CA RICH of Plainview, New York advanced six (6) exterior soil vapor points to approximately three-feet below grade within the outside open parking lot area located directly north of the building occupied by Klein Cleaners (using a Bosch hammer drill). These soil vapor sampling points were constructed of ¼-inch stainless steel tubing with the annular space around the points filled with clean No. 2 Morie sand up to approximately one-foot below grade. A bentonite seal was placed on top of the No. 2 Morie sand up to approximately two-inches above grade. A brass coupling was used to connect the stainless steel tubing to the ¼-inch nylon tubing that directly connects to the Summa canister utilized to collect the soil vapor.

In addition, one interior sub-slab soil vapor point was advanced inside the building. The interior point was installed approximately two-inches beneath the bottom of the concrete building slab using a hand-held hammer drill with a one-inch diameter bit. After the point was drilled to depth, the ¼ inch nylon tubing was extended approximately two-inches below the bottom of the concrete slab and the annular space filled with No. 2 Morie sand to approximately one-inch below grade. The surface seal consisting of combination of a non-VOC emitting clay and beeswax seal was set from one-inch below grade to approximately one-inch above grade.

Prior to sampling, approximately three tubing volumes were purged from both the interior sub-slab soil vapor point and all of the exterior soil vapor points. Four-feet of stainless tubing and three feet of nylon tubing were used in the construction of the soil vapor points. The combined seven-foot length of tubing was purged. As the total tubing had a volume of 28 milliliters per foot, approximately 196 milliliters of soil vapor was purged prior to sampling. Approximately 17 inches of nylon tubing was used in the construction of the sub-slab soil vapor point. As this tubing also has a volume of 28 milliliters per foot, approximately 40 milliliters of sub-slab soil vapor was purged prior to sampling.

An SKC Pocket Pump™, which includes both a flow meter and a flow totalizer, was used to assure that the purge rate did not exceed 0.2 liters per minute, and that the required minimum volume was purged from the sample point.

For quality control purposes to ensure the integrity of the soil vapor samples, a bucket was placed over the sampling points and a helium tracer gas was then used to enrich the atmosphere around the sampling location. The tracer gas verifies that ambient air is not inadvertently drawn down into the sub-slab soil vapor or soil vapor samples. The tubing coming from the sample point is guided through a hole in the top of the bucket and screened for the helium tracer gas using an MDG 2002 Helium Leak Detector. During the helium check, none of the points exhibited elevated helium concentrations, which indicated all the seals were competent. Upon completion of the helium check for each point, the Summa canister was turned on and sampling commenced.

For this investigation, the Summa canisters were all set to fill at a rate of not more than 0.2 liters per minute with an approximate fill time of 2-hours. The samples were analyzed for volatile organic compounds (VOCs) using USEPA Method T0-15 by a NYS-certified laboratory subcontracted by CA RICH. A drawing depicting the locations of the soil vapor samples is included as Figure 2.

5.0 FINDINGS

5.1 Indoor and Outdoor Soil Vapor Quality

The two-hour indoor sub-slab soil vapor and outdoor soil vapor sample canisters were set at the Site on August 3, 2017 and upon completion of sampling, subsequently collected that same day. The chemical analytical results are listed below and summarized on Table 1. For ease of interpretation, a PCE box plot map is included as Figure 3.

The analytical results for each sample are as follows:

- **SV-1** PCE was detected at 5,890 ug/m^3 and TCE was detected at 17.1 ug/m^3. No additional VOCs were detected in this sample.

- **SV-2** PCE was detected at 75,300 ug/m^3. No additional VOCs were detected in this sample.

- **SV-3** PCE was detected at 5,850 ug/m^3 and TCE was detected at 25.9 ug/m^3. Additional VOCs were detected, which include 1,3-Butadiene (7.5 ug/m^3), ethanol (222 ug/m^3), acetone (67.9 ug/m^3), isopropanol (13.7 ug/m^3), benzene (11.4 ug/m^3), and toluene (18.6 ug/m^3).

- **SV-4** PCE was detected at 3,970 ug/m^3 and TCE was detected at 11.3 ug/m^3. Additional VOCs were detected, which include acetone (36.6 ug/m^3), benzene (7.28 ug/m^3), and toluene (15.1 ug/m^3).

- **SV-5** PCE was detected at 39,400 ug/m^3 and TCE was detected at 372 ug/m^3. No additional VOCs were detected in this sample.

- **SV-6** PCE was detected at 48.1 ug/m^3 and TCE was detected at 5.41 ug/m^3. Additional VOCs were detected, which include dichlorofluoromethane (2.12 ug/m^3), chloromethane (1.12 ug/m^3), ethanol (16.5 ug/m^3), acetone (28.5 ug/m^3), isopropanol (15.6 ug/m^3), methylene chloride (2.01 ug/m^3), 2-butanone (1.63 ug/m^3), cis-1,2-dichloroethene (20.9 ug/m^3), tetrahydrofuran (2.02 ug/m^3), benzene (4.98 ug/m^3), toluene (17.5 ug/m^3), chlorobenzene (1.68 ug/m^3), o-xylene (1.82 ug/m^3), and 1,3-dichlorobenzene (2.3 ug/m^3).

- **SSV-1** PCE was detected at 20,200 ug/m^3 and TCE was detected at 2,800 ug/m^3. Additional VOCs were detected, which include trans-1,2-dichloroethene (215 ug/m^3), cis1,2-dichloroethene (13,900 ug/m^3), and 1,2-dichloropropane (63.3 ug/m^3).

It should be noted that the elevated concentrations of PCE detected in the soil vapor necessitated the dilution of the samples in the laboratory, particularly in SV-2, SV-5 and SSV-1, thus raising the detection limits for all compounds within these sample locations. Because the detection limits were raised, it is possible that BTEX is present at these sampled locations, but below the detection limits for the diluted samples. The BTEX concentrations for these sample locations was calculated taking into account the compounds containing non-detect levels. The calculation uses the laboratory detection limit for each of the compounds that was found to be 'non-detect'. The resulting calculation provides a worst-case scenario BTEX concentration, as listed below:

SV-2 = 817 ug/m^3
SV-5 = 369.9 ug/m^3
SSV-1 = 289.2 ug/m^3

6.0 CONCLUSION AND RECOMMENDATION

Based upon the limitations inherent to the kind of information that can be generated by the specific methodology we employed for this investigation, the following conclusion and recommendation is offered at this time:

- PCE is confirmed to occur in shallow soil vapor at the Property. It was detected in all exterior soil vapor points beneath the parking lot as well as the interior sub-slab soil vapor point SSV-1. The PCE detections ranged from 48.1 ug/m^3 in SV-6 up to 75,300 ug/m^3 in SV-2.

- TCE was detected at all of the soil vapor point locations except at SV-2, and also within the interior sub-slab soil vapor point SSV-1. The TCE detections ranged from 5.43 ug/m^3 in SV-6 up to 2,800 ug/m^3 in SSV-1. Because of the elevated PCE at SV-2, this sample was diluted; therefore, it is likely that TCE also occurs at SV-2, but at a concentration level below the laboratory detection limit of 181 ug/m^3.

- Petroleum hydrocarbons were detected in soil vapor at SV-3, SV-4 and SV-6. Benzene detections ranged from 4.98 ug/m^3 at SV-6 up to 11.4 ug/m^3 at SV-3; toluene detections ranged from 15.1 ug/m^3 at SV-4 to 18.6 ug/m^3 at SV-3; and o-xylene was detected at SV-6 at a concentration of 1.82 ug/m^3. The petroleum hydrocarbon ethylbenzene was not detected in any of the samples. Because of the notably elevated levels of PCE detected at SV-2 and SV-5, these samples were diluted; therefore, the laboratory detection limits of all compounds were raised. It is possible that petroleum hydrocarbons may also be present at SV-2 and SV-5.

- The highest PCE levels in on-Site soil vapor occur outside the dry cleaner along the northern Property boundary, with the highest concentration of 75,300 ug/m^3 encountered at SV-2, located along the center of this Property boundary. The northern extent of this vapor front appears to be localized.

Site-specific uppermost horizontal groundwater flow has not been determined for the subject Property. The topographic gradient at the Site displays a slight downward slope from north to south. In addition, the elevation of the residential property immediately west of the subject Property is substantially higher than the parking lot at the subject Property. Shallow groundwater beneath the Site is expected to be encountered at approximately 65-feet below grade and flow in a southeasterly direction. Two (2) nearby additional retail establishments that may also utilize PCE include Locust Valley Coach and Motor Works and Marino Dry Cleaners, both situated only a few hundred feet southwest of the subject Property. However, it is important to realize that shallow soil vapor and deeper underlying groundwater may migrate or flow in two different directions.

Based upon the elevated concentration levels of VOCs occurring within on-site shallow soil vapor, and selected prior similar environmental testing information at the adjoining property to the north, CA RICH recommends design and installation of an on-site soil vapor extraction (SVE)

system to intercept and capture the PCE in the soil vapor at and beneath the common boundary of these two adjoining properties. Tentative locations of the SVE points are illustrated on Figure 4.

An SVE system, unlike a sub-slab depressurization (SSD) system, is capable of providing vacuum beneath the sub-slab of a building along with capturing and removing VOC vapors from the sub-surface. The SVE system is usually a relatively larger vacuum system. A typical SSD system also provides vacuum beneath a building to help limit or eliminate vapors from entering the building, but does not necessarily provide adequate vacuum or remedial treatment mechanisms (i.e., carbon adsorption drums) to thoroughly remove and treat impacted soil vapors.

Based upon CA RICH's SVE experience, the proposed SVE system, conceptualized based upon the information gathered to date, is anticipated to provide sufficient radius-of-influence that will provide adequate vacuum beneath the two southern tenant spaces of the 83-91 Birch Hill Road plaza, thus serving to prevent sub-slab vapor levels from serving as a potential source for vapor intrusion into interior tenant space indoor air quality. Suitably-sized, based upon a pilot-scale feasibility demonstration, the system, through vacuum, will reduce soil vapor levels such that the indoor air quality should be found acceptable to NYSDOH. In addition to providing vacuum beneath the two southernmost tenant spaces in the building at 83-91 Birch Hill Road Plaza, the SVE system should also serve to help remove the VOCs occurring beneath the Birch Hill Road parking lots at both the subject Property and at 83-91 Birch Hill Road Plaza within the area of concern.

7.0 INVESTIGATION LIMITATIONS

CA RICH performed the environmental testing work described herein in accordance with an approved limited scope of work and generally accepted protocols utilized within the environmental consulting profession. There were no intentional deviations or deletions from standard scientific procedures in the performance of this work. The approved scope of work, as jointly agreed upon, was limited to the review of selected readily available and reasonably accessible documents/reports made available to CA RICH, and our testing and evaluation of specific areas on the Site utilizing approved specific methods of investigation. As such, our conclusion and recommendation is limited to only those areas tested and the specific media (soil vapor) that is of concern at this time as described, studied, and discussed herein.

The undersigned cannot be held responsible for innocent or intentional misrepresentations or inaccurate information furnished to CA RICH regarding the environmental integrity of the area that may pose any potential for further environmental risk. However, we do acknowledge that to the best of our belief, the information we have supplied is true, complete and correct, and that

facts or figures that may have an adverse effect upon the validity of the findings, conclusions and/or any recommendation(s) provided in this report have not purposely been omitted.

CA RICH has no interest other than professional in this assignment and neither its performance, nor compensation for same, is contingent upon the conclusions or recommendation represented herein.

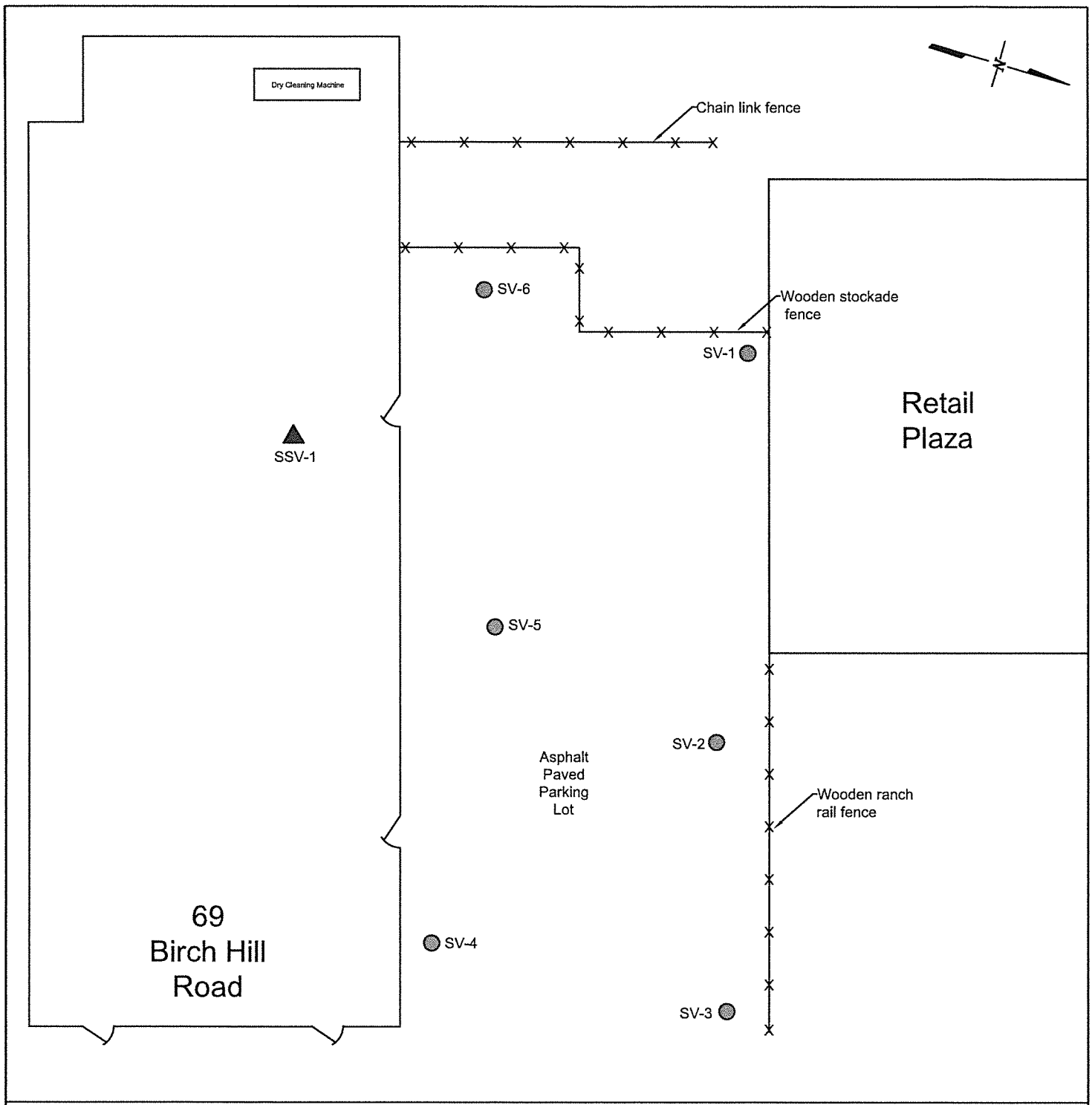
FIGURES

N

Adapted from Google Earth

CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE: **SITE LOCATION MAP**		*DATE:* **8/14/17**
		SCALE: **NTS**
FIGURE: **1**	**Klein Cleaners** **69 Birch Hill Road** **Locust Valley, NY**	*DRAWN BY:* **JTC**
DRAWING:		*APPR. BY:* **CAR**



Birch Hill Road

Legend

- Soil vapor sample location
- Sub-slab soil vapor sample location

Approximate Scale (ft)

0 10 25

CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982

17 Dupont Street, Plainview, New York 11803

TITLE: Sample Location Map		DATE: 9/18/2017
		SCALE: As Shown
FIGURE: 2	Klein Cleaners 69 Birch Hill Road Locust Valley, NY	DRAWN BY: J.T.C.
DRAWING NO: 2017-1		APPR. BY: R.J.I.

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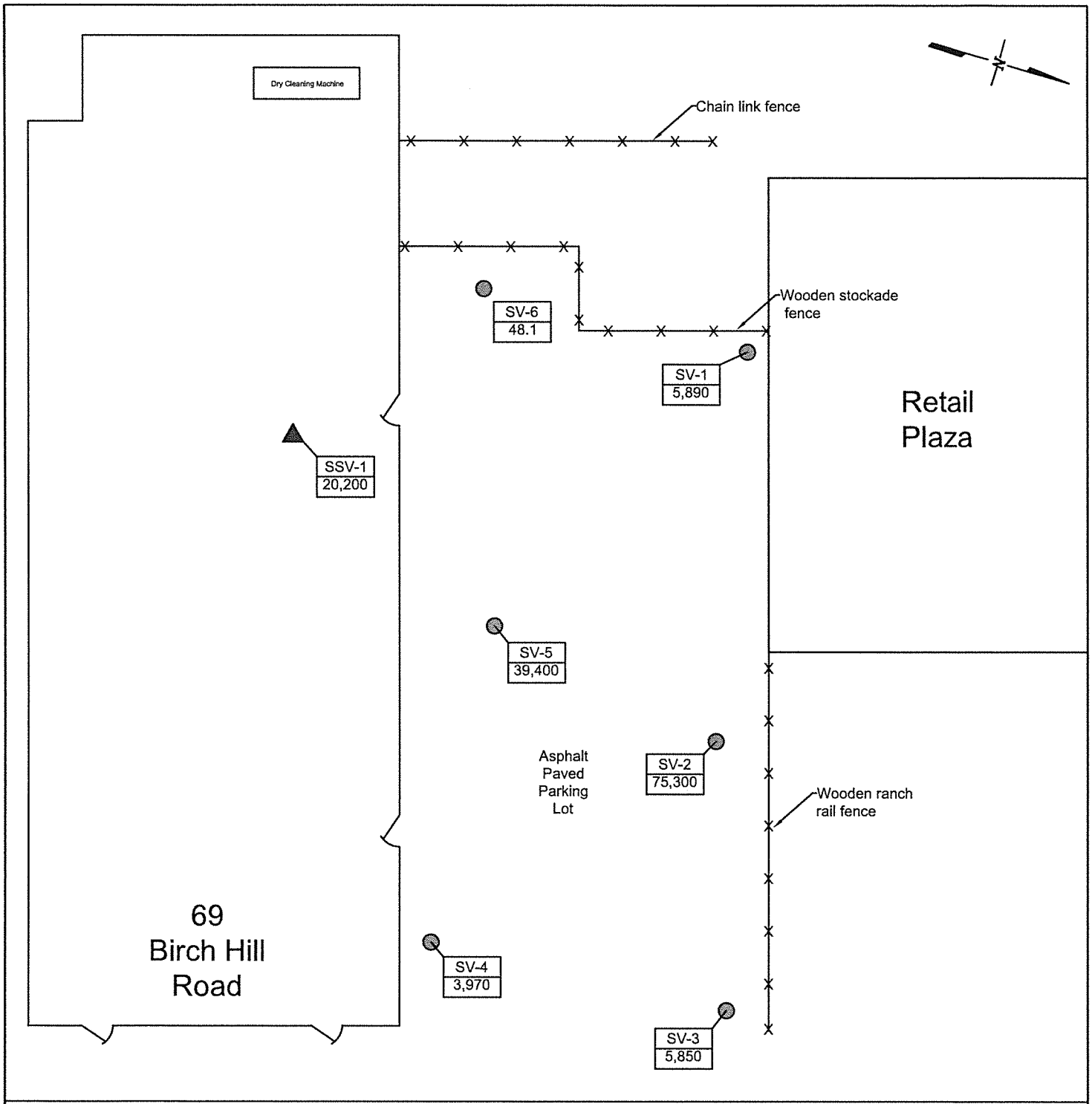

Birch Hill Road

Legend

- Soil vapor sample location
- Sub-slab soil vapor sample location
- SV-4 / 3,970 — Sample identification and PCE concentration in ug/m^3.

Approximate Scale (ft)

0 10 25

CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982

17 Dupont Street, Plainview, New York 11803

TITLE: PCE Concentrations in Sub-Slab & Soil Vapor Samples 8/3/2107	DATE: 9/18/2017
	SCALE: As Shown
FIGURE: 3	DRAWN BY: J.T.C.
DRAWING NO: 2017-2	APPR. BY: R.J.I.

Klein Cleaners
69 Birch Hill Road
Locust Valley, NY

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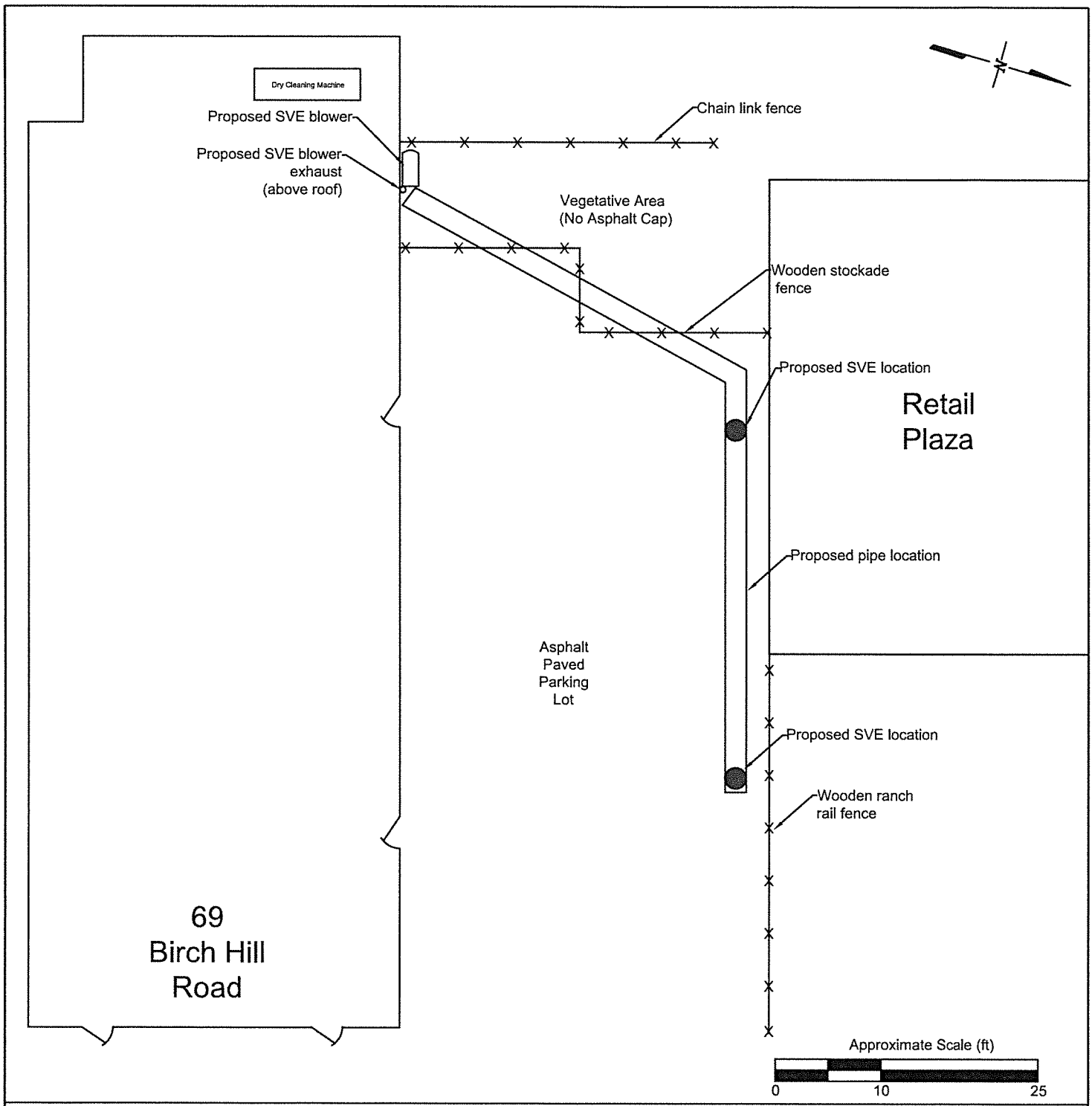

Birch Hill Road

Legend

Proposed trenching/piping location

Proposed SVE Well

Notes

1. The proposed trench dimensions shall be approximately 1-foot to 18-inches wide by 18-inches deep.
2. The proposed trench shall be backfilled with clean gravel and the excavated soils shall be disposed of properly.
3. The proposed SVE pipe within the trench shall consist of 2-inch diameter pipe. The depth of SVE well shall be determine at a later time.
4. The proposed trench shall be repair with asphalt.

CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982

17 Dupont Street, Plainview, New York 11803

TITLE: Proposed SVE Layout		DATE: 9/20/2017
		SCALE: As Shown
FIGURE: 4	Klein Cleaners 69 Birch Hill Road Locust Valley, NY	DRAWN BY: J.T.C.
DRAWING NO: 2017-4		APPR. BY: C.A.R.

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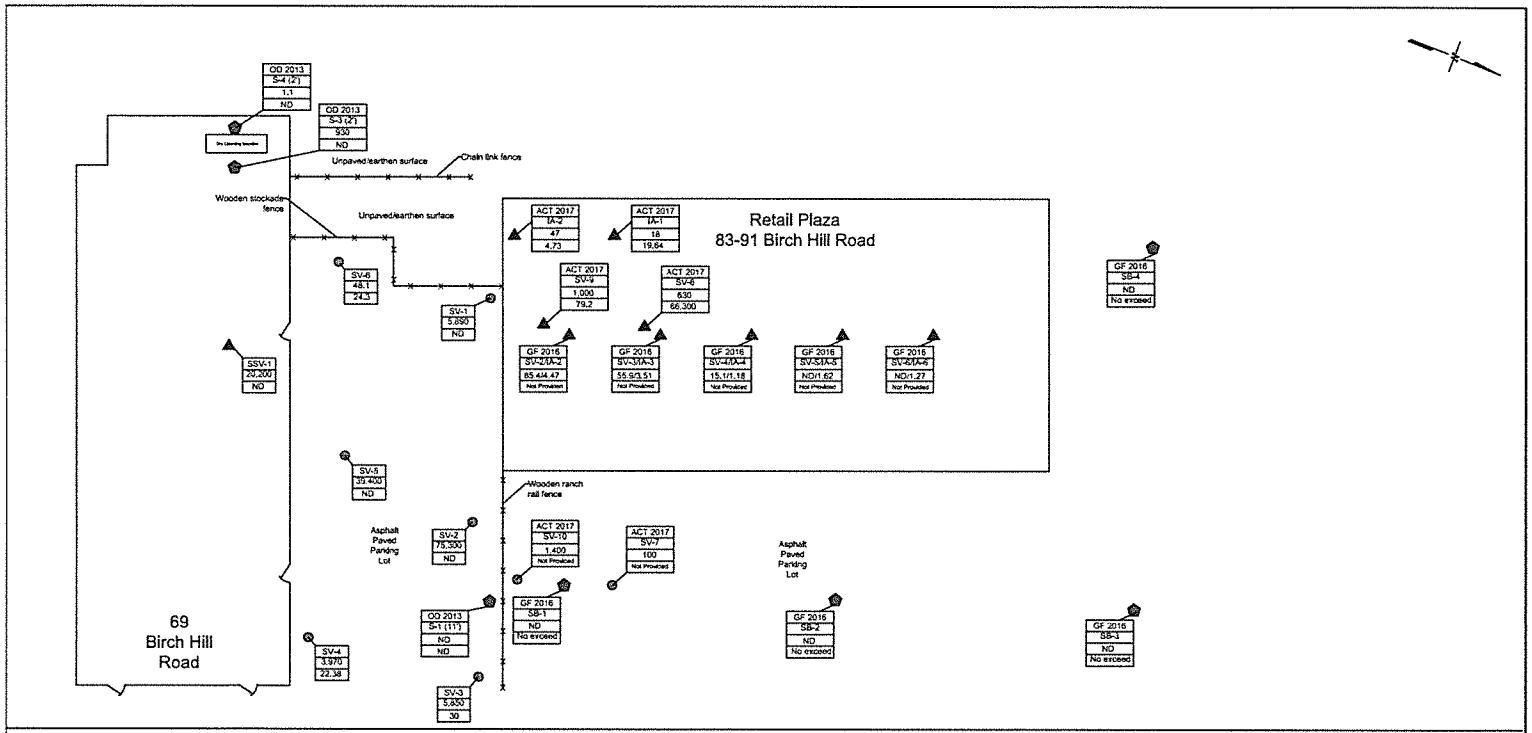

Legend-CA RICH August 2017

- Soil vapor sample location collected from 4 feet below grade.
- Sub-slab soil vapor sample location

SV-4	Sample identification
3,970	PCE concentration in ug/m^3
22.38	BTEX concentration in ug/m^3

Note–CA RICH sample locations are drawn to scale on this figure.

Advanced Cleanup Technologies April 2017

- Soil vapor sample location collected from 3-feet below grade.
- Sub-slab soil vapor/indoor air sample location

ACT 2017	ACT Report 2017
SV-3/IA-3	Sample Identification
ND	PCE concentration in ug/m^3. ND - Non-detect
No exceed	Total BTEX concentration in mg/kg. No exceedances were found above Unrestricted Use for soil.

Note–Advanced Cleanup Technologies sample locations were not drawn to scale on their figure. The sample locations on this map are not to scale and are only approximate locations.

Legend-Gannett Fleming June 2016

- Soil vapor sample location
- Sub-slab soil vapor/indoor air sample location
- Soil boring location–Depth of sample not known.

GF 2016	Gannet Flemming Report 2016
SV-3/IA-3	Sample Identification
ND	PCE concentration in ug/m^3 for air. ND - Non-detect in soils
No exceed	Total BTEX concentration. Not provided for air, no exceedances were found above Unrestricted Use for soil.

Note–Gannett Fleming sample locations were drawn to scale on their figure. The sample locations on this map are to scale.

Legend-Odelphi Report April 2013

- Soil boring location–Depth of sample provided.

GF 2016	Odelphi Report 2013
S-2	Sample Identification
930	PCE concentration in soil (ug/kg or ppb).
ND	Total BTEX concentration (ug/kg or ppb). ND - Non-detect

Note–Odelphi sample locations were not drawn to scale on their figure. The sample locations on this map are only approximate locations.

Approximate Scale (ft)
0 10 25

Birch Hill Road

CA RICH CONSULTANTS, INC.
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE: Summary Map of Select Samples From Previous Reports	DATE: 9/20/2017
	SCALE: AS SHOWN
FIGURE: 5	DRAWN BY: J.C.
DRAWING NO: 2017–5	APPR. BY: C.A.R.

Klein Cleaners
69 Birch Hill Road
Locust Valley, NY

TABLE

Table 1
Sub-Slab and Soil Vapor Samples
69 Birch Hill Road
Locust Valley, New York

Sample Name		SV-1		SV-2		SV-3		SV-4		SV-5		SV-6		SSV-1	
Sample Date		8/3/2017		8/3/2017		8/3/2017		8/3/2017		8/3/2017		8/3/2017		8/3/2017	
TEST															
Volatile Organics in Air - Mansfield Lab															
	Units	**Results**	**Qualifier**	**Results**	**Qualifier**	**Results**	**Qualifier**	**Results**	**Qualifier**	**Results**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Dichlorodifluoromethane	ug/m3	9.89	U	166	U	9.89	U	9.89	U	75.2	U	2.12		58.8	U
Chloromethane	ug/m3	4.13	U	69.4	U	4.13	U	4.13	U	31.4	U	1.12		24.6	U
Freon-114	ug/m3	14	U	235	U	14	U	14	U	106	U	1.4	U	83.2	U
Vinyl chloride	ug/m3	5.11	U	85.9	U	5.11	U	5.11	U	38.9	U	0.511	U	30.4	U
1,3-Butadiene	ug/m3	4.42	U	74.3	U	7.5		4.42	U	33.6	U	0.442	U	26.3	U
Bromomethane	ug/m3	7.77	U	130	U	7.77	U	7.77	U	59	U	0.777	U	46.2	U
Chloroethane	ug/m3	5.28	U	88.7	U	5.28	U	5.28	U	40.1	U	0.528	U	31.4	U
Ethanol	ug/m3	94.2	U	1580	U	222		94.2	U	716	U	16.5		560	U
Vinyl bromide	ug/m3	8.74	U	147	U	8.74	U	8.74	U	66.5	U	0.874	U	52	U
Acetone	ug/m3	23.8	U	399	U	67.9		36.6		181	U	28.5		141	U
Trichlorofluoromethane	ug/m3	11.2	U	189	U	11.2	U	11.2	U	85.4	U	1.12	U	66.9	U
Isopropanol	ug/m3	12.3	U	206	U	13.7		12.3	U	93.4	U	15.6		73	U
1,1-Dichloroethene	ug/m3	7.93	U	133	U	7.93	U	7.93	U	60.3	U	0.793	U	47.2	U
Tertiary butyl Alcohol	ug/m3	15.2	U	254	U	15.2	U	15.2	U	115	U	1.52	U	90	U
Methylene chloride	ug/m3	17.4	U	291	U	17.4	U	17.4	U	132	U	2.01		103	U
3-Chloropropene	ug/m3	6.26	U	105	U	6.26	U	6.26	U	47.6	U	0.626	U	37.2	U
Carbon disulfide	ug/m3	6.23	U	105	U	6.23	U	6.23	U	47.3	U	0.623	U	37.1	U
Freon-113	ug/m3	15.3	U	258	U	15.3	U	15.3	U	117	U	1.53	U	91.2	U
trans-1,2-Dichloroethene	ug/m3	7.93	U	133	U	7.93	U	7.93	U	60.3	U	0.793	U	215	
1,1-Dichloroethane	ug/m3	8.09	U	136	U	8.09	U	8.09	U	61.5	U	0.809	U	48.2	U
Methyl tert butyl ether	ug/m3	7.21	U	121	U	7.21	U	7.21	U	54.8	U	0.721	U	42.9	U
2-Butanone	ug/m3	14.7	U	247	U	14.7	U	14.7	U	112	U	1.63		87.6	U
cis-1,2-Dichloroethene	ug/m3	7.93	U	133	U	7.93	U	7.93	U	60.3	U	20.9		13900	
Ethyl Acetate	ug/m3	18	U	302	U	18	U	18	U	137	U	1.8	U	107	U
Chloroform	ug/m3	9.77	U	164	U	9.77	U	9.77	U	74.2	U	0.977	U	58.1	U
Tetrahydrofuran	ug/m3	14.7	U	247	U	14.7	U	14.7	U	112	U	2.02		87.6	U
1,2-Dichloroethane	ug/m3	8.09	U	136	U	8.09	U	8.09	U	61.5	U	0.809	U	48.2	U
n-Hexane	ug/m3	7.05	U	118	U	7.05	U	7.05	U	53.6	U	0.705	U	41.9	U
1,1,1-Trichloroethane	ug/m3	10.9	U	183	U	10.9	U	10.9	U	82.9	U	1.09	U	64.9	U
Benzene	ug/m3	6.39	U	107	U	11.4		7.28		48.6	U	4.98		38	U
Carbon tetrachloride	ug/m3	12.6	U	211	U	12.6	U	12.6	U	95.6	U	1.26	U	74.9	U
Cyclohexane	ug/m3	6.88	U	116	U	6.88	U	6.88	U	52.3	U	0.688	U	41	U
1,2-Dichloropropane	ug/m3	9.24	U	155	U	9.24	U	9.24	U	70.2	U	0.924	U	63.3	
Bromodichloromethane	ug/m3	13.4	U	225	U	13.4	U	13.4	U	102	U	1.34	U	79.7	U
1,4-Dioxane	ug/m3	7.21	U	121	U	7.21	U	7.21	U	54.8	U	0.721	U	42.9	U
Trichloroethene	ug/m3	17.1		181	U	25.9		11.3		372		5.43		2800	
2,2,4-Trimethylpentane	ug/m3	9.34	U	157	U	9.34	U	9.34	U	71	U	0.934	U	55.6	U
Heptane	ug/m3	8.2	U	138	U	8.2	U	8.2	U	62.3	U	0.82	U	48.8	U
cis-1,3-Dichloropropene	ug/m3	9.08	U	153	U	9.08	U	9.08	U	69	U	0.908	U	54	U
4-Methyl-2-pentanone	ug/m3	20.5	U	344	U	20.5	U	20.5	U	156	U	2.05	U	122	U
trans-1,3-Dichloropropene	ug/m3	9.08	U	153	U	9.08	U	9.08	U	69	U	0.908	U	54	U
1,1,2-Trichloroethane	ug/m3	10.9	U	183	U	10.9	U	10.9	U	82.9	U	1.09	U	64.9	U
Toluene	ug/m3	7.54	U	127	U	18.6		15.1		57.3	U	17.5		44.8	U
2-Hexanone	ug/m3	8.2	U	138	U	8.2	U	8.2	U	62.3	U	0.82	U	48.8	U
Dibromochloromethane	ug/m3	17	U	286	U	17	U	17	U	129	U	1.7	U	101	U
1,2-Dibromoethane	ug/m3	15.4	U	258	U	15.4	U	15.4	U	117	U	1.54	U	91.5	U
Tetrachloroethene	ug/m3	5890		75300		5850		3970		39400		48.1		20200	
Chlorobenzene	ug/m3	9.21	U	155	U	9.21	U	9.21	U	70	U	1.68		54.8	U
Ethylbenzene	ug/m3	8.69	U	146	U	8.69	U	8.69	U	66	U	0.869	U	51.7	U
p/m-Xylene	ug/m3	17.4	U	291	U	17.4	U	17.4	U	132	U	1.74	U	103	U
Bromoform	ug/m3	20.7	U	347	U	20.7	U	20.7	U	157	U	2.07	U	123	U
Styrene	ug/m3	8.52	U	143	U	8.52	U	8.52	U	64.7	U	0.852	U	50.7	U
1,1,2,2-Tetrachloroethane	ug/m3	13.7	U	231	U	13.7	U	13.7	U	104	U	1.37	U	81.7	U
o-Xylene	ug/m3	8.69	U	146	U	8.69	U	8.69	U	66	U	1.82		51.7	U
4-Ethyltoluene	ug/m3	9.83	U	165	U	9.83	U	9.83	U	74.7	U	0.983	U	58.5	U
1,3,5-Trimethylbenzene	ug/m3	9.83	U	165	U	9.83	U	9.83	U	74.7	U	0.983	U	58.5	U
1,2,4-Trimethylbenzene	ug/m3	9.83	U	165	U	9.83	U	9.83	U	74.7	U	0.983	U	58.5	U
Benzyl chloride	ug/m3	10.4	U	174	U	10.4	U	10.4	U	78.7	U	1.04	U	61.6	U
1,3-Dichlorobenzene	ug/m3	12	U	202	U	12	U	12	U	91.4	U	2.3		71.5	U
1,4-Dichlorobenzene	ug/m3	12	U	202	U	12	U	12	U	91.4	U	1.2	U	71.5	U
1,2-Dichlorobenzene	ug/m3	12	U	202	U	12	U	12	U	91.4	U	1.2	U	71.5	U
1,2,4-Trichlorobenzene	ug/m3	14.8	U	249	U	14.8	U	14.8	U	113	U	1.48	U	88.3	U
Hexachlorobutadiene	ug/m3	21.3	U	358	U	21.3	U	21.3	U	162	U	2.13	U	127	U

Notes:
U- Not detected at or above laboratory detection limits.
ug/m3 - micrograms per cubic meters

APPENDIX A

Laboratory Data

ANALYTICAL REPORT

Lab Number:	L1727201
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jason Cooper
Phone:	(516) 576-8844
Project Name:	KLEIN CLEANERS
Project Number:	Not Specified
Report Date:	08/09/17

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), 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 #P330-13-00067), USFWS (Permit #LE2069641).

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

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1727201-01	SV-1	SOIL_VAPOR	BURCH HILLS RD.	08/03/17 12:44	08/04/17
L1727201-02	SV-2	SOIL_VAPOR	BURCH HILLS RD.	08/03/17 12:35	08/04/17
L1727201-03	SV-3	SOIL_VAPOR	BURCH HILLS RD.	08/03/17 12:40	08/04/17
L1727201-04	SV-4	SOIL_VAPOR	BURCH HILLS RD.	08/03/17 12:15	08/04/17
L1727201-05	SV-5	SOIL_VAPOR	BURCH HILLS RD.	08/03/17 12:18	08/04/17
L1727201-06	SV-6	SOIL_VAPOR	BURCH HILLS RD.	08/03/17 12:31	08/04/17
L1727201-07	SSV-1	SOIL_VAPOR	BURCH HILLS RD.	08/03/17 14:18	08/04/17

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name:	KLEIN CLEANERS	**Lab Number:**	L1727201
Project Number:	Not Specified	**Report Date:**	08/09/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on August 1, 2017. The canister certification results are provided as an addendum.

L1727201-01 through -04 and -07: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1727201-05: 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: 08/09/17

AIR

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-01 D
Client ID: SV-1
Sample Location: BURCH HILLS RD.
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/07/17 19:51
Analyst: MB

Date Collected: 08/03/17 12:44
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	ND	10.0	--	ND	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	ND	2.00	--	ND	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	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-01 D
Client ID: SV-1
Sample Location: BURCH HILLS RD.
Date Collected: 08/03/17 12:44
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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	3.19	2.00	--	17.1	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	ND	2.00	--	ND	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	868	2.00	--	5890	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-01 D
Client ID: SV-1
Sample Location: BURCH HILLS RD.

Date Collected: 08/03/17 12:44
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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	91		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	86		60-140

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-02 D
Client ID: SV-2
Sample Location: BURCH HILLS RD.
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/08/17 09:33
Analyst: MB

Date Collected: 08/03/17 12:35
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	33.6	--	ND	166	--		167.8
Chloromethane	ND	33.6	--	ND	69.4	--		167.8
Freon-114	ND	33.6	--	ND	235	--		167.8
Vinyl chloride	ND	33.6	--	ND	85.9	--		167.8
1,3-Butadiene	ND	33.6	--	ND	74.3	--		167.8
Bromomethane	ND	33.6	--	ND	130	--		167.8
Chloroethane	ND	33.6	--	ND	88.7	--		167.8
Ethanol	ND	839	--	ND	1580	--		167.8
Vinyl bromide	ND	33.6	--	ND	147	--		167.8
Acetone	ND	168	--	ND	399	--		167.8
Trichlorofluoromethane	ND	33.6	--	ND	189	--		167.8
Isopropanol	ND	83.9	--	ND	206	--		167.8
1,1-Dichloroethene	ND	33.6	--	ND	133	--		167.8
Tertiary butyl Alcohol	ND	83.9	--	ND	254	--		167.8
Methylene chloride	ND	83.9	--	ND	291	--		167.8
3-Chloropropene	ND	33.6	--	ND	105	--		167.8
Carbon disulfide	ND	33.6	--	ND	105	--		167.8
Freon-113	ND	33.6	--	ND	258	--		167.8
trans-1,2-Dichloroethene	ND	33.6	--	ND	133	--		167.8
1,1-Dichloroethane	ND	33.6	--	ND	136	--		167.8
Methyl tert butyl ether	ND	33.6	--	ND	121	--		167.8
2-Butanone	ND	83.9	--	ND	247	--		167.8
cis-1,2-Dichloroethene	ND	33.6	--	ND	133	--		167.8
Ethyl Acetate	ND	83.9	--	ND	302	--		167.8

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-02 D
Client ID: SV-2
Sample Location: BURCH HILLS RD.
Date Collected: 08/03/17 12:35
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	33.6	--	ND	164	--		167.8
Tetrahydrofuran	ND	83.9	--	ND	247	--		167.8
1,2-Dichloroethane	ND	33.6	--	ND	136	--		167.8
n-Hexane	ND	33.6	--	ND	118	--		167.8
1,1,1-Trichloroethane	ND	33.6	--	ND	183	--		167.8
Benzene	ND	33.6	--	ND	107	--		167.8
Carbon tetrachloride	ND	33.6	--	ND	211	--		167.8
Cyclohexane	ND	33.6	--	ND	116	--		167.8
1,2-Dichloropropane	ND	33.6	--	ND	155	--		167.8
Bromodichloromethane	ND	33.6	--	ND	225	--		167.8
1,4-Dioxane	ND	33.6	--	ND	121	--		167.8
Trichloroethene	ND	33.6	--	ND	181	--		167.8
2,2,4-Trimethylpentane	ND	33.6	--	ND	157	--		167.8
Heptane	ND	33.6	--	ND	138	--		167.8
cis-1,3-Dichloropropene	ND	33.6	--	ND	153	--		167.8
4-Methyl-2-pentanone	ND	83.9	--	ND	344	--		167.8
trans-1,3-Dichloropropene	ND	33.6	--	ND	153	--		167.8
1,1,2-Trichloroethane	ND	33.6	--	ND	183	--		167.8
Toluene	ND	33.6	--	ND	127	--		167.8
2-Hexanone	ND	33.6	--	ND	138	--		167.8
Dibromochloromethane	ND	33.6	--	ND	286	--		167.8
1,2-Dibromoethane	ND	33.6	--	ND	258	--		167.8
Tetrachloroethene	11100	33.6	--	75300	228	--		167.8
Chlorobenzene	ND	33.6	--	ND	155	--		167.8
Ethylbenzene	ND	33.6	--	ND	146	--		167.8
p/m-Xylene	ND	67.1	--	ND	291	--		167.8
Bromoform	ND	33.6	--	ND	347	--		167.8
Styrene	ND	33.6	--	ND	143	--		167.8

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-02 D
Client ID: SV-2
Sample Location: BURCH HILLS RD.

Date Collected: 08/03/17 12:35
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	33.6	--	ND	231	--		167.8
o-Xylene	ND	33.6	--	ND	146	--		167.8
4-Ethyltoluene	ND	33.6	--	ND	165	--		167.8
1,3,5-Trimethylbenzene	ND	33.6	--	ND	165	--		167.8
1,2,4-Trimethylbenzene	ND	33.6	--	ND	165	--		167.8
Benzyl chloride	ND	33.6	--	ND	174	--		167.8
1,3-Dichlorobenzene	ND	33.6	--	ND	202	--		167.8
1,4-Dichlorobenzene	ND	33.6	--	ND	202	--		167.8
1,2-Dichlorobenzene	ND	33.6	--	ND	202	--		167.8
1,2,4-Trichlorobenzene	ND	33.6	--	ND	249	--		167.8
Hexachlorobutadiene	ND	33.6	--	ND	358	--		167.8

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	120		60-140
chlorobenzene-d5	90		60-140

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-03 D
Client ID: SV-3
Sample Location: BURCH HILLS RD.
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/07/17 20:52
Analyst: MB

Date Collected: 08/03/17 12:40
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	3.39	2.00	--	7.50	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	118	50.0	--	222	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	28.6	10.0	--	67.9	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	5.58	5.00	--	13.7	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	ND	2.00	--	ND	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	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-03 D
Client ID: SV-3
Sample Location: BURCH HILLS RD.
Date Collected: 08/03/17 12:40
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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	3.58	2.00	--	11.4	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	4.82	2.00	--	25.9	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	4.94	2.00	--	18.6	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	863	2.00	--	5850	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-03 D
Client ID: SV-3
Sample Location: BURCH HILLS RD.

Date Collected: 08/03/17 12:40
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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	86		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	83		60-140

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-04 D
Client ID: SV-4
Sample Location: BURCH HILLS RD.
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/07/17 21:22
Analyst: MB

Date Collected: 08/03/17 12:15
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	15.4	10.0	--	36.6	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	ND	2.00	--	ND	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	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-04 D
Client ID: SV-4
Sample Location: BURCH HILLS RD.
Date Collected: 08/03/17 12:15
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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	2.28	2.00	--	7.28	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	2.11	2.00	--	11.3	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	4.00	2.00	--	15.1	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	586	2.00	--	3970	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-04 D
Client ID: SV-4
Sample Location: BURCH HILLS RD.

Date Collected: 08/03/17 12:15
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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	78		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	74		60-140

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-05 D
Client ID: SV-5
Sample Location: BURCH HILLS RD.
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/09/17 02:40
Analyst: RY

Date Collected: 08/03/17 12:18
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	15.2	--	ND	75.2	--		75.99
Chloromethane	ND	15.2	--	ND	31.4	--		75.99
Freon-114	ND	15.2	--	ND	106	--		75.99
Vinyl chloride	ND	15.2	--	ND	38.9	--		75.99
1,3-Butadiene	ND	15.2	--	ND	33.6	--		75.99
Bromomethane	ND	15.2	--	ND	59.0	--		75.99
Chloroethane	ND	15.2	--	ND	40.1	--		75.99
Ethanol	ND	380	--	ND	716	--		75.99
Vinyl bromide	ND	15.2	--	ND	66.5	--		75.99
Acetone	ND	76.0	--	ND	181	--		75.99
Trichlorofluoromethane	ND	15.2	--	ND	85.4	--		75.99
Isopropanol	ND	38.0	--	ND	93.4	--		75.99
1,1-Dichloroethene	ND	15.2	--	ND	60.3	--		75.99
Tertiary butyl Alcohol	ND	38.0	--	ND	115	--		75.99
Methylene chloride	ND	38.0	--	ND	132	--		75.99
3-Chloropropene	ND	15.2	--	ND	47.6	--		75.99
Carbon disulfide	ND	15.2	--	ND	47.3	--		75.99
Freon-113	ND	15.2	--	ND	117	--		75.99
trans-1,2-Dichloroethene	ND	15.2	--	ND	60.3	--		75.99
1,1-Dichloroethane	ND	15.2	--	ND	61.5	--		75.99
Methyl tert butyl ether	ND	15.2	--	ND	54.8	--		75.99
2-Butanone	ND	38.0	--	ND	112	--		75.99
cis-1,2-Dichloroethene	ND	15.2	--	ND	60.3	--		75.99
Ethyl Acetate	ND	38.0	--	ND	137	--		75.99

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-05 D
Client ID: SV-5
Sample Location: BURCH HILLS RD.
Date Collected: 08/03/17 12:18
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	15.2	--	ND	74.2	--		75.99
Tetrahydrofuran	ND	38.0	--	ND	112	--		75.99
1,2-Dichloroethane	ND	15.2	--	ND	61.5	--		75.99
n-Hexane	ND	15.2	--	ND	53.6	--		75.99
1,1,1-Trichloroethane	ND	15.2	--	ND	82.9	--		75.99
Benzene	ND	15.2	--	ND	48.6	--		75.99
Carbon tetrachloride	ND	15.2	--	ND	95.6	--		75.99
Cyclohexane	ND	15.2	--	ND	52.3	--		75.99
1,2-Dichloropropane	ND	15.2	--	ND	70.2	--		75.99
Bromodichloromethane	ND	15.2	--	ND	102	--		75.99
1,4-Dioxane	ND	15.2	--	ND	54.8	--		75.99
Trichloroethene	69.2	15.2	--	372	81.7	--		75.99
2,2,4-Trimethylpentane	ND	15.2	--	ND	71.0	--		75.99
Heptane	ND	15.2	--	ND	62.3	--		75.99
cis-1,3-Dichloropropene	ND	15.2	--	ND	69.0	--		75.99
4-Methyl-2-pentanone	ND	38.0	--	ND	156	--		75.99
trans-1,3-Dichloropropene	ND	15.2	--	ND	69.0	--		75.99
1,1,2-Trichloroethane	ND	15.2	--	ND	82.9	--		75.99
Toluene	ND	15.2	--	ND	57.3	--		75.99
2-Hexanone	ND	15.2	--	ND	62.3	--		75.99
Dibromochloromethane	ND	15.2	--	ND	129	--		75.99
1,2-Dibromoethane	ND	15.2	--	ND	117	--		75.99
Tetrachloroethene	5810	15.2	--	39400	103	--		75.99
Chlorobenzene	ND	15.2	--	ND	70.0	--		75.99
Ethylbenzene	ND	15.2	--	ND	66.0	--		75.99
p/m-Xylene	ND	30.4	--	ND	132	--		75.99
Bromoform	ND	15.2	--	ND	157	--		75.99
Styrene	ND	15.2	--	ND	64.7	--		75.99

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-05 D
Client ID: SV-5
Sample Location: BURCH HILLS RD.

Date Collected: 08/03/17 12:18
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	15.2	--	ND	104	--		75.99
o-Xylene	ND	15.2	--	ND	66.0	--		75.99
4-Ethyltoluene	ND	15.2	--	ND	74.7	--		75.99
1,3,5-Trimethylbenzene	ND	15.2	--	ND	74.7	--		75.99
1,2,4-Trimethylbenzene	ND	15.2	--	ND	74.7	--		75.99
Benzyl chloride	ND	15.2	--	ND	78.7	--		75.99
1,3-Dichlorobenzene	ND	15.2	--	ND	91.4	--		75.99
1,4-Dichlorobenzene	ND	15.2	--	ND	91.4	--		75.99
1,2-Dichlorobenzene	ND	15.2	--	ND	91.4	--		75.99
1,2,4-Trichlorobenzene	ND	15.2	--	ND	113	--		75.99
Hexachlorobutadiene	ND	15.2	--	ND	162	--		75.99

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

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-06
Client ID: SV-6
Sample Location: BURCH HILLS RD.
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/07/17 22:25
Analyst: MB

Date Collected: 08/03/17 12:31
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.429	0.200	--	2.12	0.989	--		1
Chloromethane	0.542	0.200	--	1.12	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	8.77	5.00	--	16.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	12.0	1.00	--	28.5	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	6.36	0.500	--	15.6	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	0.580	0.500	--	2.01	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	0.551	0.500	--	1.63	1.47	--		1
cis-1,2-Dichloroethene	5.28	0.200	--	20.9	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-06
Client ID: SV-6
Sample Location: BURCH HILLS RD.
Date Collected: 08/03/17 12:31
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.684	0.500	--	2.02	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	1.56	0.200	--	4.98	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	1.01	0.200	--	5.43	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	4.64	0.200	--	17.5	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	7.10	0.200	--	48.1	1.36	--		1
Chlorobenzene	0.364	0.200	--	1.68	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

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-06
Client ID: SV-6
Sample Location: BURCH HILLS RD.
Date Collected: 08/03/17 12:31
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.419	0.200	--	1.82	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	0.383	0.200	--	2.30	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	74		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	80		60-140

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-07 D
Client ID: SSV-1
Sample Location: BURCH HILLS RD.
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/07/17 22:56
Analyst: MB

Date Collected: 08/03/17 14:18
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	11.9	--	ND	58.8	--		59.38
Chloromethane	ND	11.9	--	ND	24.6	--		59.38
Freon-114	ND	11.9	--	ND	83.2	--		59.38
Vinyl chloride	ND	11.9	--	ND	30.4	--		59.38
1,3-Butadiene	ND	11.9	--	ND	26.3	--		59.38
Bromomethane	ND	11.9	--	ND	46.2	--		59.38
Chloroethane	ND	11.9	--	ND	31.4	--		59.38
Ethanol	ND	297	--	ND	560	--		59.38
Vinyl bromide	ND	11.9	--	ND	52.0	--		59.38
Acetone	ND	59.4	--	ND	141	--		59.38
Trichlorofluoromethane	ND	11.9	--	ND	66.9	--		59.38
Isopropanol	ND	29.7	--	ND	73.0	--		59.38
1,1-Dichloroethene	ND	11.9	--	ND	47.2	--		59.38
Tertiary butyl Alcohol	ND	29.7	--	ND	90.0	--		59.38
Methylene chloride	ND	29.7	--	ND	103	--		59.38
3-Chloropropene	ND	11.9	--	ND	37.2	--		59.38
Carbon disulfide	ND	11.9	--	ND	37.1	--		59.38
Freon-113	ND	11.9	--	ND	91.2	--		59.38
trans-1,2-Dichloroethene	54.2	11.9	--	215	47.2	--		59.38
1,1-Dichloroethane	ND	11.9	--	ND	48.2	--		59.38
Methyl tert butyl ether	ND	11.9	--	ND	42.9	--		59.38
2-Butanone	ND	29.7	--	ND	87.6	--		59.38
cis-1,2-Dichloroethene	3500	11.9	--	13900	47.2	--		59.38
Ethyl Acetate	ND	29.7	--	ND	107	--		59.38

Project Name: KLEIN CLEANERS
Project Number: Not Specified
Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-07 D
Client ID: SSV-1
Sample Location: BURCH HILLS RD.
Date Collected: 08/03/17 14:18
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	11.9	--	ND	58.1	--		59.38
Tetrahydrofuran	ND	29.7	--	ND	87.6	--		59.38
1,2-Dichloroethane	ND	11.9	--	ND	48.2	--		59.38
n-Hexane	ND	11.9	--	ND	41.9	--		59.38
1,1,1-Trichloroethane	ND	11.9	--	ND	64.9	--		59.38
Benzene	ND	11.9	--	ND	38.0	--		59.38
Carbon tetrachloride	ND	11.9	--	ND	74.9	--		59.38
Cyclohexane	ND	11.9	--	ND	41.0	--		59.38
1,2-Dichloropropane	13.7	11.9	--	63.3	55.0	--		59.38
Bromodichloromethane	ND	11.9	--	ND	79.7	--		59.38
1,4-Dioxane	ND	11.9	--	ND	42.9	--		59.38
Trichloroethene	521	11.9	--	2800	64.0	--		59.38
2,2,4-Trimethylpentane	ND	11.9	--	ND	55.6	--		59.38
Heptane	ND	11.9	--	ND	48.8	--		59.38
cis-1,3-Dichloropropene	ND	11.9	--	ND	54.0	--		59.38
4-Methyl-2-pentanone	ND	29.7	--	ND	122	--		59.38
trans-1,3-Dichloropropene	ND	11.9	--	ND	54.0	--		59.38
1,1,2-Trichloroethane	ND	11.9	--	ND	64.9	--		59.38
Toluene	ND	11.9	--	ND	44.8	--		59.38
2-Hexanone	ND	11.9	--	ND	48.8	--		59.38
Dibromochloromethane	ND	11.9	--	ND	101	--		59.38
1,2-Dibromoethane	ND	11.9	--	ND	91.5	--		59.38
Tetrachloroethene	2980	11.9	--	20200	80.7	--		59.38
Chlorobenzene	ND	11.9	--	ND	54.8	--		59.38
Ethylbenzene	ND	11.9	--	ND	51.7	--		59.38
p/m-Xylene	ND	23.8	--	ND	103	--		59.38
Bromoform	ND	11.9	--	ND	123	--		59.38
Styrene	ND	11.9	--	ND	50.7	--		59.38

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1727201-07 D
Client ID: SSV-1
Sample Location: BURCH HILLS RD.

Date Collected: 08/03/17 14:18
Date Received: 08/04/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	11.9	--	ND	81.7	--		59.38
o-Xylene	ND	11.9	--	ND	51.7	--		59.38
4-Ethyltoluene	ND	11.9	--	ND	58.5	--		59.38
1,3,5-Trimethylbenzene	ND	11.9	--	ND	58.5	--		59.38
1,2,4-Trimethylbenzene	ND	11.9	--	ND	58.5	--		59.38
Benzyl chloride	ND	11.9	--	ND	61.6	--		59.38
1,3-Dichlorobenzene	ND	11.9	--	ND	71.5	--		59.38
1,4-Dichlorobenzene	ND	11.9	--	ND	71.5	--		59.38
1,2-Dichlorobenzene	ND	11.9	--	ND	71.5	--		59.38
1,2,4-Trichlorobenzene	ND	11.9	--	ND	88.3	--		59.38
Hexachlorobutadiene	ND	11.9	--	ND	127	--		59.38

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	89		60-140

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/07/17 16:08

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04,06-07 Batch: WG1029650-4								
Propylene	ND	0.500	--	ND	0.861	--		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
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
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/07/17 16:08

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04,06-07 Batch: WG1029650-4								
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	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

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/07/17 16:08

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04,06-07 Batch: WG1029650-4								
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
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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/08/17 14:44

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 05 Batch: WG1030054-4								
Propylene	ND	0.500	--	ND	0.861	--		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
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
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/08/17 14:44

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 05 Batch: WG1030054-4								
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	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

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/08/17 14:44

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 05 Batch: WG1030054-4								
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
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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04,06-07 Batch: WG1029650-3								
Chlorodifluoromethane	81		-		70-130	-		
Propylene	102		-		70-130	-		
Propane	94		-		70-130	-		
Dichlorodifluoromethane	70		-		70-130	-		
Chloromethane	100		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	93		-		70-130	-		
Methanol	110		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	102		-		70-130	-		
Butane	108		-		70-130	-		
Bromomethane	92		-		70-130	-		
Chloroethane	94		-		70-130	-		
Ethyl Alcohol	116		-		70-130	-		
Dichlorofluoromethane	92		-		70-130	-		
Vinyl bromide	86		-		70-130	-		
Acrolein	93		-		70-130	-		
Acetone	117		-		70-130	-		
Acetonitrile	100		-		70-130	-		
Trichlorofluoromethane	96		-		70-130	-		
iso-Propyl Alcohol	112		-		70-130	-		
Acrylonitrile	100		-		70-130	-		
Pentane	102		-		70-130	-		
Ethyl ether	109		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04,06-07 Batch: WG1029650-3								
1,1-Dichloroethene	100		-		70-130	-		
tert-Butyl Alcohol	92		-		70-130	-		
Methylene chloride	119		-		70-130	-		
3-Chloropropene	114		-		70-130	-		
Carbon disulfide	93		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		-		70-130	-		
trans-1,2-Dichloroethene	104		-		70-130	-		
1,1-Dichloroethane	108		-		70-130	-		
Methyl tert butyl ether	78		-		70-130	-		
Vinyl acetate	96		-		70-130	-		
2-Butanone	90		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		
Ethyl Acetate	96		-		70-130	-		
Chloroform	85		-		70-130	-		
Tetrahydrofuran	87		-		70-130	-		
2,2-Dichloropropane	74		-		70-130	-		
1,2-Dichloroethane	85		-		70-130	-		
n-Hexane	110		-		70-130	-		
Isopropyl Ether	92		-		70-130	-		
Ethyl-Tert-Butyl-Ether	97		-		70-130	-		
1,1,1-Trichloroethane	98		-		70-130	-		
1,1-Dichloropropene	96		-		70-130	-		
Benzene	102		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04,06-07 Batch: WG1029650-3								
Carbon tetrachloride	98		-		70-130	-		
Cyclohexane	108		-		70-130	-		
Tertiary-Amyl Methyl Ether	92		-		70-130	-		
Dibromomethane	99		-		70-130	-		
1,2-Dichloropropane	112		-		70-130	-		
Bromodichloromethane	107		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	115		-		70-130	-		
Methyl Methacrylate	128		-		70-130	-		
Heptane	118		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	124		-		70-130	-		
trans-1,3-Dichloropropene	92		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	84		-		70-130	-		
1,3-Dichloropropane	84		-		70-130	-		
2-Hexanone	105		-		70-130	-		
Dibromochloromethane	88		-		70-130	-		
1,2-Dibromoethane	86		-		70-130	-		
Butyl Acetate	83		-		70-130	-		
Octane	77		-		70-130	-		
Tetrachloroethene	75		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04,06-07 Batch: WG1029650-3								
1,1,1,2-Tetrachloroethane	79		-		70-130	-		
Chlorobenzene	85		-		70-130	-		
Ethylbenzene	86		-		70-130	-		
p/m-Xylene	88		-		70-130	-		
Bromoform	82		-		70-130	-		
Styrene	84		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	92		-		70-130	-		
1,2,3-Trichloropropane	85		-		70-130	-		
Nonane (C9)	99		-		70-130	-		
Isopropylbenzene	81		-		70-130	-		
Bromobenzene	83		-		70-130	-		
o-Chlorotoluene	77		-		70-130	-		
n-Propylbenzene	79		-		70-130	-		
p-Chlorotoluene	79		-		70-130	-		
4-Ethyltoluene	84		-		70-130	-		
1,3,5-Trimethylbenzene	86		-		70-130	-		
tert-Butylbenzene	84		-		70-130	-		
1,2,4-Trimethylbenzene	95		-		70-130	-		
Decane (C10)	93		-		70-130	-		
Benzyl chloride	96		-		70-130	-		
1,3-Dichlorobenzene	84		-		70-130	-		
1,4-Dichlorobenzene	83		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04,06-07 Batch: WG1029650-3								
sec-Butylbenzene	84		-		70-130	-		
p-Isopropyltoluene	74		-		70-130	-		
1,2-Dichlorobenzene	83		-		70-130	-		
n-Butylbenzene	90		-		70-130	-		
1,2-Dibromo-3-chloropropane	90		-		70-130	-		
Undecane	97		-		70-130	-		
Dodecane (C12)	109		-		70-130	-		
1,2,4-Trichlorobenzene	89		-		70-130	-		
Naphthalene	80		-		70-130	-		
1,2,3-Trichlorobenzene	82		-		70-130	-		
Hexachlorobutadiene	77		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 05 Batch: WG1030054-3								
Chlorodifluoromethane	90		-		70-130	-		
Propylene	101		-		70-130	-		
Propane	70		-		70-130	-		
Dichlorodifluoromethane	77		-		70-130	-		
Chloromethane	101		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	103		-		70-130	-		
Methanol	87		-		70-130	-		
Vinyl chloride	103		-		70-130	-		
1,3-Butadiene	102		-		70-130	-		
Butane	88		-		70-130	-		
Bromomethane	106		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethyl Alcohol	82		-		70-130	-		
Dichlorofluoromethane	89		-		70-130	-		
Vinyl bromide	101		-		70-130	-		
Acrolein	88		-		70-130	-		
Acetone	96		-		70-130	-		
Acetonitrile	82		-		70-130	-		
Trichlorofluoromethane	102		-		70-130	-		
iso-Propyl Alcohol	95		-		70-130	-		
Acrylonitrile	86		-		70-130	-		
Pentane	78		-		70-130	-		
Ethyl ether	74		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 05 Batch: WG1030054-3								
1,1-Dichloroethene	90		-		70-130	-		
tert-Butyl Alcohol	80		-		70-130	-		
Methylene chloride	93		-		70-130	-		
3-Chloropropene	94		-		70-130	-		
Carbon disulfide	94		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		-		70-130	-		
trans-1,2-Dichloroethene	93		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
Vinyl acetate	105		-		70-130	-		
2-Butanone	93		-		70-130	-		
cis-1,2-Dichloroethene	96		-		70-130	-		
Ethyl Acetate	103		-		70-130	-		
Chloroform	99		-		70-130	-		
Tetrahydrofuran	91		-		70-130	-		
2,2-Dichloropropane	87		-		70-130	-		
1,2-Dichloroethane	93		-		70-130	-		
n-Hexane	88		-		70-130	-		
Isopropyl Ether	86		-		70-130	-		
Ethyl-Tert-Butyl-Ether	78		-		70-130	-		
1,1,1-Trichloroethane	92		-		70-130	-		
1,1-Dichloropropene	85		-		70-130	-		
Benzene	88		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 05 Batch: WG1030054-3								
Carbon tetrachloride	93		-		70-130	-		
Cyclohexane	88		-		70-130	-		
Tertiary-Amyl Methyl Ether	78		-		70-130	-		
Dibromomethane	84		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	92		-		70-130	-		
1,4-Dioxane	91		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	90		-		70-130	-		
Methyl Methacrylate	100		-		70-130	-		
Heptane	88		-		70-130	-		
cis-1,3-Dichloropropene	96		-		70-130	-		
4-Methyl-2-pentanone	88		-		70-130	-		
trans-1,3-Dichloropropene	84		-		70-130	-		
1,1,2-Trichloroethane	96		-		70-130	-		
Toluene	98		-		70-130	-		
1,3-Dichloropropane	91		-		70-130	-		
2-Hexanone	96		-		70-130	-		
Dibromochloromethane	110		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		
Butyl Acetate	92		-		70-130	-		
Octane	92		-		70-130	-		
Tetrachloroethene	105		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 05 Batch: WG1030054-3								
1,1,1,2-Tetrachloroethane	96		-		70-130	-		
Chlorobenzene	103		-		70-130	-		
Ethylbenzene	101		-		70-130	-		
p/m-Xylene	102		-		70-130	-		
Bromoform	114		-		70-130	-		
Styrene	104		-		70-130	-		
1,1,2,2-Tetrachloroethane	102		-		70-130	-		
o-Xylene	104		-		70-130	-		
1,2,3-Trichloropropane	92		-		70-130	-		
Nonane (C9)	90		-		70-130	-		
Isopropylbenzene	99		-		70-130	-		
Bromobenzene	93		-		70-130	-		
o-Chlorotoluene	105		-		70-130	-		
n-Propylbenzene	112		-		70-130	-		
p-Chlorotoluene	94		-		70-130	-		
4-Ethyltoluene	102		-		70-130	-		
1,3,5-Trimethylbenzene	105		-		70-130	-		
tert-Butylbenzene	101		-		70-130	-		
1,2,4-Trimethylbenzene	111		-		70-130	-		
Decane (C10)	96		-		70-130	-		
Benzyl chloride	108		-		70-130	-		
1,3-Dichlorobenzene	110		-		70-130	-		
1,4-Dichlorobenzene	110		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 05 Batch: WG1030054-3								
sec-Butylbenzene	99		-		70-130	-		
p-Isopropyltoluene	95		-		70-130	-		
1,2-Dichlorobenzene	109		-		70-130	-		
n-Butylbenzene	102		-		70-130	-		
1,2-Dibromo-3-chloropropane	97		-		70-130	-		
Undecane	101		-		70-130	-		
Dodecane (C12)	113		-		70-130	-		
1,2,4-Trichlorobenzene	119		-		70-130	-		
Naphthalene	106		-		70-130	-		
1,2,3-Trichlorobenzene	107		-		70-130	-		
Hexachlorobutadiene	115		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04,06-07 QC Batch ID: WG1029650-5 QC Sample: L1726929-01 Client ID: DUP Sample						
Dichlorodifluoromethane	0.346	0.371	ppbV	7		25
Chloromethane	0.603	0.567	ppbV	6		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	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
Ethyl Alcohol	23.5	23.6	ppbV	0		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	60.7	61.2	ppbV	1		25
Trichlorofluoromethane	0.232	0.239	ppbV	3		25
iso-Propyl Alcohol	4.34	4.60	ppbV	6		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	0.676	0.803	ppbV	17		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	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

Lab Duplicate Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04,06-07 QC Batch ID: WG1029650-5 QC Sample: L1726929-01 Client ID: DUP Sample						
2-Butanone	11.3	11.5	ppbV	2		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.288	0.276	ppbV	4		25
Carbon tetrachloride	ND	ND	ppbV	NC		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
Trichloroethene	2.96	3.01	ppbV	2		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	0.831	0.718	ppbV	15		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04,06-07 QC Batch ID: WG1029650-5 QC Sample: L1726929-01 Client ID: DUP Sample						
Toluene	0.347	0.348	ppbV	0		25
2-Hexanone	5.00	4.99	ppbV	0		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.571	0.565	ppbV	1		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	ND	ND	ppbV	NC		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

Lab Duplicate Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1030054-5 QC Sample: L1727328-01 Client ID: DUP Sample						
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	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
Ethyl Alcohol	489	460	ppbV	6		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	1610	1500	ppbV	7		25
Trichlorofluoromethane	16.9	18.0	ppbV	6		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	7.06	7.01	ppbV	1		25
Methylene chloride	73.3	65.6	ppbV	11		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	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

Lab Duplicate Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1030054-5 QC Sample: L1727328-01 Client ID: DUP Sample						
2-Butanone	131	127	ppbV	3		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	9.07	9.33	ppbV	3		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	12.0	11.4	ppbV	5		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	20.2	19.0	ppbV	6		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	19.4	17.8	ppbV	9		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	2.26	2.32	ppbV	3		25
2,2,4-Trimethylpentane	5.86	5.53	ppbV	6		25
Heptane	15.7	14.4	ppbV	9		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	14.0	12.7	ppbV	10		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1030054-5 QC Sample: L1727328-01 Client ID: DUP Sample						
Toluene	78.8	83.5	ppbV	6		25
2-Hexanone	7.54	8.59	ppbV	13		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	11.8	13.2	ppbV	11		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	81.8	87.5	ppbV	7		25
p/m-Xylene	230	244	ppbV	6		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	110	120	ppbV	9		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	70.5	76.4	ppbV	8		25
4-Ethyltoluene	7.53	8.38	ppbV	11		25
1,3,5-Trimethylbenzene	13.4	15.1	ppbV	12		25
1,2,4-Trimethylbenzene	27.6	31.5	ppbV	13		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	1.70	1.94	ppbV	13		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Serial_No:08091716:34

Project Name: KLEIN CLEANERS

Lab Number: L1727201

Project Number:

Report Date: 08/09/17

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1727201-01	SV-1	0404	Flow 3	08/01/17	246567		-	-	-	Pass	40.0	40.5	1
L1727201-01	SV-1	1637	6.0L Can	08/01/17	246567	L1725447-01	Pass	-29.8	-7.0	-	-	-	-
L1727201-02	SV-2	0327	Flow 3	08/01/17	246567		-	-	-	Pass	40.0	40.3	1
L1727201-02	SV-2	1620	6.0L Can	08/01/17	246567	L1725447-01	Pass	-29.6	-5.4	-	-	-	-
L1727201-03	SV-3	0935	Flow 2	08/01/17	246567		-	-	-	Pass	40.0	39.8	1
L1727201-03	SV-3	2318	6.0L CAN	08/01/17	246567	L1725447-01	Pass	-29.4	-4.0	-	-	-	-
L1727201-04	SV-4	0407	Flow 2	08/01/17	246567		-	-	-	Pass	40.0	31.0	25
L1727201-04	SV-4	2102	6.0L Can	08/01/17	246567	L1725447-01	Pass	-29.7	-8.8	-	-	-	-
L1727201-05	SV-5	0575	Flow 4	08/01/17	246567		-	-	-	Pass	38.0	33.5	13
L1727201-05	SV-5	1769	6.0L Can	08/01/17	246567	L1725447-01	Pass	-29.7	-8.3	-	-	-	-
L1727201-06	SV-6	0132	Flow 4	08/01/17	246567		-	-	-	Pass	40.0	34.1	16
L1727201-06	SV-6	1858	6.0L Can	08/01/17	246567	L1724782-01	Pass	-29.7	-9.4	-	-	-	-
L1727201-07	SSV-1	0641	Flow 3	08/01/17	246567		-	-	-	Pass	40.0	39.9	0
L1727201-07	SSV-1	1790	6.0L Can	08/01/17	246567	L1725447-01	Pass	-29.8	-6.9	-	-	-	-

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1724782

Report Date: 08/09/17

Air Canister Certification Results

Lab ID:	L1724782-01	Date Collected:	07/18/17 14:00
Client ID:	16:30	Date Received:	07/19/17
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	07/20/17 16:26		
Analyst:	RY		

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1724782

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724782-01
Client ID: 16:30
Sample Location:

Date Collected: 07/18/17 14:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
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
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		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
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1724782

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724782-01
Client ID: 16:30
Sample Location:

Date Collected: 07/18/17 14:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1724782

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724782-01
Client ID: 16:30
Sample Location:

Date Collected: 07/18/17 14:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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 (C12)	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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1724782

Report Date: 08/09/17

Air Canister Certification Results

Lab ID:	L1724782-01	Date Collected:	07/18/17 14:00
Client ID:	16:30	Date Received:	07/19/17
Sample Location:		Field Prep:	Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	89		60-140

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1724782

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724782-01
Client ID: 16:30
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/20/17 16:26
Analyst: RY

Date Collected: 07/18/17 14:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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	0.020	--	ND	0.053	--		1
Ethyl Alcohol	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	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		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
Vinyl acetate	ND	1.00	--	ND	3.52	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1724782

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724782-01
Client ID: 16:30
Sample Location:

Date Collected: 07/18/17 14:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		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
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
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
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	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
2-Hexanone	ND	0.200	--	ND	0.820	--		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

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1724782

Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1724782-01
Client ID: 16:30
Sample Location:

Date Collected: 07/18/17 14:00
Date Received: 07/19/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	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
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	95		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1725447
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1725447-01
Client ID: /17 09:00
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/25/17 18:55
Analyst: RY

Date Collected: 07/24/17 16:00
Date Received: 07/25/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1725447
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1725447-01
Client ID: /17 09:00
Sample Location:

Date Collected: 07/24/17 16:00
Date Received: 07/25/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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
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
1,1,1-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
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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1725447

Project Number: CANISTER QC BAT **Report Date:** 08/09/17

Air Canister Certification Results

Lab ID: L1725447-01 Date Collected: 07/24/17 16:00

Client ID: /17 09:00 Date Received: 07/25/17

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1725447
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1725447-01
Client ID: /17 09:00
Sample Location:

Date Collected: 07/24/17 16:00
Date Received: 07/25/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1725447
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1725447-01
Client ID: /17 09:00
Sample Location:

Date Collected: 07/24/17 16:00
Date Received: 07/25/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	82		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1725447
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1725447-01
Client ID: /17 09:00
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/25/17 18:55
Analyst: RY

Date Collected: 07/24/17 16:00
Date Received: 07/25/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	0.020	--	ND	0.053	--		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
Halothane	ND	0.050	--	ND	0.404	--		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
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1725447
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1725447-01
Client ID: /17 09:00
Sample Location:

Date Collected: 07/24/17 16:00
Date Received: 07/25/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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
1,1,2,2-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
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1725447
Report Date: 08/09/17

Air Canister Certification Results

Lab ID: L1725447-01
Client ID: /17 09:00
Sample Location:

Date Collected: 07/24/17 16:00
Date Received: 07/25/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	89		60-140

Serial_No:08091716:34

Project Name: KLEIN CLEANERS
Project Number: Not Specified

Lab Number: L1727201
Report Date: 08/09/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	***Custody Seal***
N/A	Present/Intact

Container Information

Container ID	***Container Type***	***Cooler***	***Initial pH***	***Final pH***	***Temp deg C***	***Pres***	***Seal***	***Frozen Date/Time***	***Analysis(*)***
L1727201-01A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1727201-02A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1727201-03A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1727201-04A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1727201-05A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1727201-06A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)
L1727201-07A	Canister - 6 Liter	N/A	N/A	N/A		Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name: KLEIN CLEANERS **Lab Number:** L1727201
Project Number: Not Specified **Report Date:** 08/09/17

GLOSSARY

Acronyms

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).

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.

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.

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.

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.

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.

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.

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.

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 Condensation Product".

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

Project Name: KLEIN CLEANERS **Lab Number:** L1727201

Project Number: Not Specified **Report Date:** 08/09/17

Data Qualifiers

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.

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.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where 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.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: KLEIN CLEANERS **Lab Number:** L1727201
Project Number: Not Specified **Report Date:** 08/09/17

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.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-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, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N, **EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:08091716:34

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8/5/17

ALPHA Job #: L1727201

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: CA RICH Consultants, Inc.
Address: 17 Dupont Street, Plainview NY 11803
Phone: 516-576-8844
Fax: 516-576-0093
Email: jcooper@carichinc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Klein Cleaners
Project Location: Burch Hill Rd
Project #: Klein Cleaners
Project Manager: Jason T. Cooper
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

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 #: Klein Cleaners

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
NY	NYSDOH	

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Speciated Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15			Sample Comments (i.e. PID)
7201-01	SV-1	8/3/17	1044	1244	-30.03	-6.46	SV	JC	6L	1637	0404	X							
02	SV-2	8/3/17	1027	1235	-30.37	-4.09	SV	JC	6L	1620	0327	X							
03	SV-3	8/3/17	1022	1240	-29.80	-2.86	SV	JC	6L	2318	0935	X							
04	SV-4	8/3/17	1009	1215	-29.93	-8.66	SV	JC	6L	2102	0407	X							
05	SV-5	8/3/17	1015	1218	-30.19	-7.26	SV	JC	6L	1769	0575	X							
06	SV-6	8/3/17	1018	1231	-30.81	-8.69	SV	JC	6L	1858	0132	X							
07	SSV-1	8/3/17	1218	1418	-30.81	-6.29	SV	JC	6L	1790	0641	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:
Jason T. Cooper	8/4/17 11:52	BDB	8-4-17 11:52
BDB	8-4-17 14:08	Paul Mazzella	8/4/17 22:00
Paul Mazzella	8/5/17 04:35		

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.

Form No: 101-02 Rev. (25-Sep-15)