March 12, 2021

Jane Pfeiffer
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

Re: Vapor Intrusion Assessment Status Update and Work Plan
Martino's Master Dry Cleaners
7513 41st Avenue
Kenosha, Wisconsin 53142
BRRTS# 02-30-552188

Dear Ms. Pfeiffer:

EnviroForensics, LLC is pleased to submit this Status Update and Work Plan for the Martino's Master Dry Cleaners (Martino's) site located at 7513 41st Avenue in Kenosha, Wisconsin (the Site). This document has been prepared in response to the information request contained in a letter from the Wisconsin Department of Natural Resources (WDNR) dated February 17, 2021. Specifically, WDNR requested an update concerning the vapor intrusion (VI) assessment and monitoring activities specified in an April 8, 2016 letter from WDNR following review of the Site Investigation Report.

STATUS UPDATE

An update regarding each item listed in the April 8, 2016 letter is provided below.

WDNR Comment: *Due to the detects of Tetrachloroethene (PCE) detect in sub-slab monitoring at 4017 75th Street, please conduct a vapor intrusion assessment at the Hungry Head Sandwich Shop, 4003 75th Street.*

- A vapor intrusion assessment was completed at 4003 75th Street, a small commercial building. The assessment consisted of two (2) vapor sampling events conducted June 6, 2016 and October 20, 2016, respectively. Two (2) Vapor Pin® ports designated 4003-SSV-1 and 4003-SSV-2 were installed in the floor slab of the building for vapor sampling purposes. The sample results are summarized on **Table 1** (attached). PCE was detected in one (1) sub-slab vapor sample at a concentration well below the vapor risk screening level (VRSL) for small commercial buildings; PCE was not detected in the other samples. Other compounds unrelated to the dry cleaning solvent used at the site were detected at relatively low concentrations below the applicable VRSLs. Per the VI guidance issued at that time (and consistent with RR-800), indoor air samples were not collected because VRSLs were not exceeded. This building is currently vacant.

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WDNR Comment: *For 7507 and 7505 41st Avenue and 4017 75th Street please continue monitoring sub-slab vapor and indoor air vapor concentrations until at least three samples indicate concentrations below Sub-Slab Vapor Screening Levels (SS VRSL) or Vapor Action Levels (VAL). At least one sub-slab and one indoor air sample should be collected during winter frozen ground conditions.*

- 7507 41st Avenue: This building adjoins Martino's (Site) to the north. The initial VI assessment activities, conducted in December 2013, indicated a potential VI risk to the building. As mentioned in Section 5.3.3 of the Site Investigation Report, installation of a sub-slab depressurization system (SSDS) was recommended; however, the owners of the property were non-responsive to requests for access to perform that work. We were subsequently allowed to perform another VI sampling event, which was completed in August 2016. As shown in **Table 2**, the concentration of PCE in sub-slab vapor was again detected above the VRSL. The property owner would not grant permission to install an SSDS in 2016. According to Kenosha County property records, ownership has not changed since that time. The current building tenant is a vaping business.

- 7505 41st Avenue: A vapor intrusion assessment was completed at 7505 75th Street, which is part of the small commercial building that adjoins Martino's to the north. It comprises approximately 1,050 square feet. The assessment consisted of three (3) vapor sampling events conducted between November 3, 2015 and May 31, 2016, including one event during the winter. One (1) Vapor Pin® port designated 7505-SSV-1 was installed in the floor slab of the building for sampling purposes. The sampling results are summarized on **Table 3** (attached). PCE was detected in each of the sub-slab vapor samples at concentrations well below the VRSL for small commercial buildings. Benzene, which is unrelated to the dry cleaning solvent used at the site, was detected in one (1) sample at a concentration below its VRSL. Per the VI guidance issued at that time (and consistent with RR-800), indoor air samples were not collected because VRSLs were not exceeded.

- 4017 75th Street: A vapor intrusion assessment was completed at 4017 75th Street, a small commercial building. The assessment consisted of three (3) vapor sampling events conducted between September 17, 2015 and June 9, 2016, including one event during the winter. Two (2) Vapor Pin® ports designated 4017-SSV-1 and 4017-SSV-2 were installed in the floor slab of the building for sampling purposes. The sampling results are summarized on **Table 4** (attached). PCE was detected at one (1) of the two (2) sub-slab vapor sampling locations during each event at concentrations below the VRSL for small commercial buildings. Benzene, which is unrelated to the dry cleaning solvent used at the site, was detected in one (1) sample at a concentration above its VRSL but was not detected in the two subsequent samples collected from that location. Per the VI guidance issued at that time (and consistent with RR-800), indoor air samples were not collected because relevant VRSLs were not exceeded.

WDNR Comment: *For properties with vapor intrusion mitigation systems installed please submit operation and maintenance plans.*

An Operation, Maintenance, and Monitoring Plan was prepared for the SSDS installed in the Martino's building and was submitted to WDNR on August 22, 2017. No other mitigation systems were installed.

CONCLUSIONS

As requested in the February 17, 2021 letter, the current VI assessment status of impacted and potentially impacted on-site and off-site properties is identified on **Table 5**, and comprehensive VI assessment results are presented on **Figure 1**. Laboratory analytical reports associated with VI samples collected since the Site Investigation Report was submitted are also attached. The only property that has not been either mitigated or screened out by sampling is 7507 41st Avenue because the property owner would not grant permission to install an SSDS.

WORK PLAN

The soil vapor extraction (SVE) remediation system has been operating for more than 6,500 hours and has removed an estimated 22 pounds of volatile compounds. It is possible that this remedial effort has reduced PCE in sub-slab vapor beneath 7507 41st Avenue to concentrations less than the small commercial VRSL. EnviroForensics will re-engage with the 7507 41st Avenue property owner and request permission to repeat VI sampling. If access is denied, we will notify WDNR. If access is granted, VI sampling will consist of:

- Sub-slab vapor sampling from the two (2) previously installed ports;
- One (1) indoor air sample from the ground floor; and
- An outdoor air sample to evaluate background conditions.

The SVE system will be shut down at least two (2) weeks before sampling to allow the subsurface to equilibrate. This will ensure that the vapor conditions during sampling are representative of future, post-remediation conditions.

Indoor/Outdoor Air Sampling Procedures

Prior to sampling, an inspection of the occupied spaces will be conducted to identify and inventory materials that could potentially contribute to indoor air conditions, unrelated to VI issues. Suspect items identified during the inspection will be listed on a pre-sampling inspection form for later reference or potential removal. The building layout will be examined and a simple sketch will be prepared in the field to assist in the selection of indoor air sampling locations. The results of all pre-sampling inspection activities will be recorded on an Indoor Air Building Survey Form.

Air samples will be collected in individually certified 6-liter vacuum canisters positioned within the breathing space, 3-5 feet above the floor surface. Sample collection will occur over an 8-hour period. Sample identification will be identical to previous monitoring events. Samples will be submitted to a laboratory under chain-of-custody for analysis of PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride according to EPA Test Method TO-15. The analytical results of the air samples will be compared to small commercial VALs established by WDNR.

Sub-Slab Vapor Sampling Procedures

Permanent sub-slab vapor sampling ports were previously installed in the floor slab of the 7507 41st Avenue building. To ensure that the sub-slab vapor samples are representative of subsurface conditions, water dam leak testing will be performed at each sample port. The integrity of the sample tubing and fittings will be verified prior to sample collection by conducting a negative pressure test. The results of the testing and other pertinent sample information will be recorded on a Field Sampling Form.

The vapor samples will be collected through dedicated Teflon®-lined polyethylene tubing connected to the sub-slab vapor sampling port. A graduated syringe will be utilized to purge ambient air from the tubing prior to initiating sample collection. Vapor beneath the concrete slab will then be drawn into a 1-liter vacuum canister fitted with a laboratory supplied regulator that limits the flow rate to approximately 200 milliliters per minute (mL/min). Sample identification will be identical to previous monitoring events. Following the completion of sampling activities, the canisters will be submitted to an environmental laboratory for analysis of PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride according to EPA Test Method TO-15. The analytical results of the sub-slab vapor samples will be compared to small commercial VRSLs established by WDNR.

Sample Results Notifications

Following receipt of the analytical results, EnviroForensics will prepare a sample results notification in letter format in accordance with WDNR regulations. The letter will include a description of the sampling procedures, a figure depicting the sample locations, and a results summary table with comparisons to WDNR screening/action levels. The letter will be sent to the property owner, with copies to the building occupant and WDNR

Contingent Tasks

1. If the sampling results indicate the VI risk has been reduced and mitigation is no longer needed, two (2) additional, identical sampling events will be performed to screen out the VI pathway, including one event during the winter months.

2. If the sampling results indicate a continuing VI risk, mitigation will again be recommended to the property owner of 7507 41st Avenue and no additional sampling will be performed.

A work plan for the evaluation of potential use, handling, and storage of emerging contaminants, including perfluoroalkyl and polyfluoroalkyl substances (PFAS), will be submitted separately. If you need further information please contact me at bkappen@enviroforensics.com or 262-745-5054.

Sincerely,
EnviroForensics, LLC

Brian Kappen, PG
Project Manager

cc: Dan Martino, Martino's Master Dry Cleaners

List of Attachments:

Table 1 – Vapor Intrusion Assessment Results Summary – 4003 75th Street
Table 2 – Vapor Intrusion Assessment Results Summary – 7507 41st Avenue
Table 3 – Vapor Intrusion Assessment Results Summary – 7505 41st Avenue
Table 4 – Vapor Intrusion Assessment Results Summary – 4017 75th Street
Table 5 – Vapor Intrusion Assessment Status Summary
Figure 1 – vapor Intrusion Assessment Results Summary
Laboratory Analytical Reports

TABLE 1
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY
4003 75th STREET
Martino's Master Drycleaners
7513 41st Avenue, Kenosha, Wisconsin

Sample Identification	Date Sampled	Tetrachloroethene	Benzene	Ethylbezene	1,2,4-Trimethylebenzene	m,p-Xylene
SUB-SLAB VAPOR						
Vapor Risk Screening Level [1]		**6,000**	**530**	**1,600**	**8,700**	**15,000**
6165-4003-SSV-1	6/9/2016	**417**	**25.2**	<86.8	<49.2	<434
	10/20/2016	<31.9	<16.0	<86.8	<49.2	<434
6165-4003-SSV-2	6/9/2016	<31.9	**88.8**	**101**	**227**	**649**
	10/20/2016	<31.9	<16.0	<86.8	<49.2	<434

Notes:

[1] Small Commercial Vapor Risk Screeing Levels are calculated in accordance with WDNR Pub RR-800 and subsequent guidance documents

All concentrations reported in units of micrograms per cubic meter ($\mu g/m^3$)

Bolded values are above detection limits

TABLE 2
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY
7507 41ST AVENUE
Martino's Master Drycleaners
7513 41st Avenue, Kenosha, Wisconsin

Sample Identification	Sample Location	Sample Date	Tetrachloroethene	Trichloroethene	Benzene
INDOOR/OUTDOOR AIR					
Vapor Action Level [1]			**180**	**8.8**	**16**
6165-7507-IA-1	Basement	12/16/2013	<3.19	<1.07	<1.60
	1st Floor	8/3/2016	**92.3**	<1.07	<1.60
6165-7507-OA-1	Outdoor	12/16/2013	<3.19	<1.07	<1.60
		8/3/2016	<3.19	<1.07	<1.60
SUB-SLAB VAPOR					
Vapor Risk Screening Level [1]			**6,000**	**290**	**530**
6165-7507-SSV-1	1st Floor	12/3/2013	**9,740**	**79.5**	**70.6**
		8/3/2016	**10,200**	**83.3**	<16.0
6165-7507-SSV-2	Basement	12/3/2013	**73.4**	<10.7	<16.0
		8/3/2016	**344**	<10.7	<16.0

Notes:

[1] Small Commercial Vapor Risk Screeing and Action Levels are calculated in accordance with WDNR Pub RR-800 and subsequent guidance documents

All concentrations reported in units of micrograms per cubic meter ($\mu g/m^3$)

Bolded values are above detection limits

Bolded and shaded concentrations exceed the small commercial screening or action level

TABLE 3
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY
7505 41st AVENUE
Martino's Master Drycleaners
7513 41st Avenue, Kenosha, Wisconsin

Sample Identification	Date Sampled	Tetrachloroethene	Benzene
SUB-SLAB VAPOR			
Vapor Risk Screening Level [1]		**6,000**	**530**
6165-7505-SSV-1	11/3/2015	**631**	<16.0
	1/25/2016	**335**	<16.0
	5/31/2016	**766**	**31.6**

Notes:

[1] Small Commercial Vapor Risk Screeing Levels are calculated in accordance with WDNR Pub RR-800 and subsequent guidance documents

All concentrations reported in untis of micrograms per cubic meter ($\mu g/m^3$)

Bolded values are above detection limits

TABLE 4
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY
4017 75th STREET
Martino's Master Drycleaners
7513 41st Avenue, Kenosha, Wisconsin

Sample Identification	Date Sampled	Tetrachloroethene	Benzene	Ethylbenzene	Isooctane	n- Heptane	n-Hexane	1,2,4-Trimethylebenzene	1,3,5-Trimethylebenzene
SUB-SLAB VAPOR									
Vapor Risk Screening Level [1]		**6,000**	**530**	**1,600**	**NE**	**NE**	**103,000**	**8,700**	**8,700**
6165-4017-SSV-1	9/17/2015	<31.9	<16.0	<86.8	<4,670	<4,100	<1,760	<49.2	<49.2
	1/25/2016	<31.9	**32.6**	<86.8	<4,670	<4,100	<1,760	<49.2	<49.2
	6/9/2016	<31.9	<16.0	<86.8	<4,670	<4,100	<1,760	<49.2	<49.2
6165-4017-SSV-2	9/17/2015	**4,560**	**561**	**273**	**132,000**	**2,000**	**6,770**	**917**	**1,990**
	1/25/2016	**2,470**	<16.0	<86.8	<4,670	<4,100	<1,760	<49.2	<49.2
	6/9/2016	**1,970**	<16.0	<86.8	<4,670	<4,100	<1,760	<49.2	<49.2

Notes:

[1] Small Commercial Vapor Risk Screeing Levels are calculated in accordance with WDNR Pub RR-800 and subsequent guidance documents

All concentrations reported in units of micrograms per cubic meter ($\mu g/m^3$)

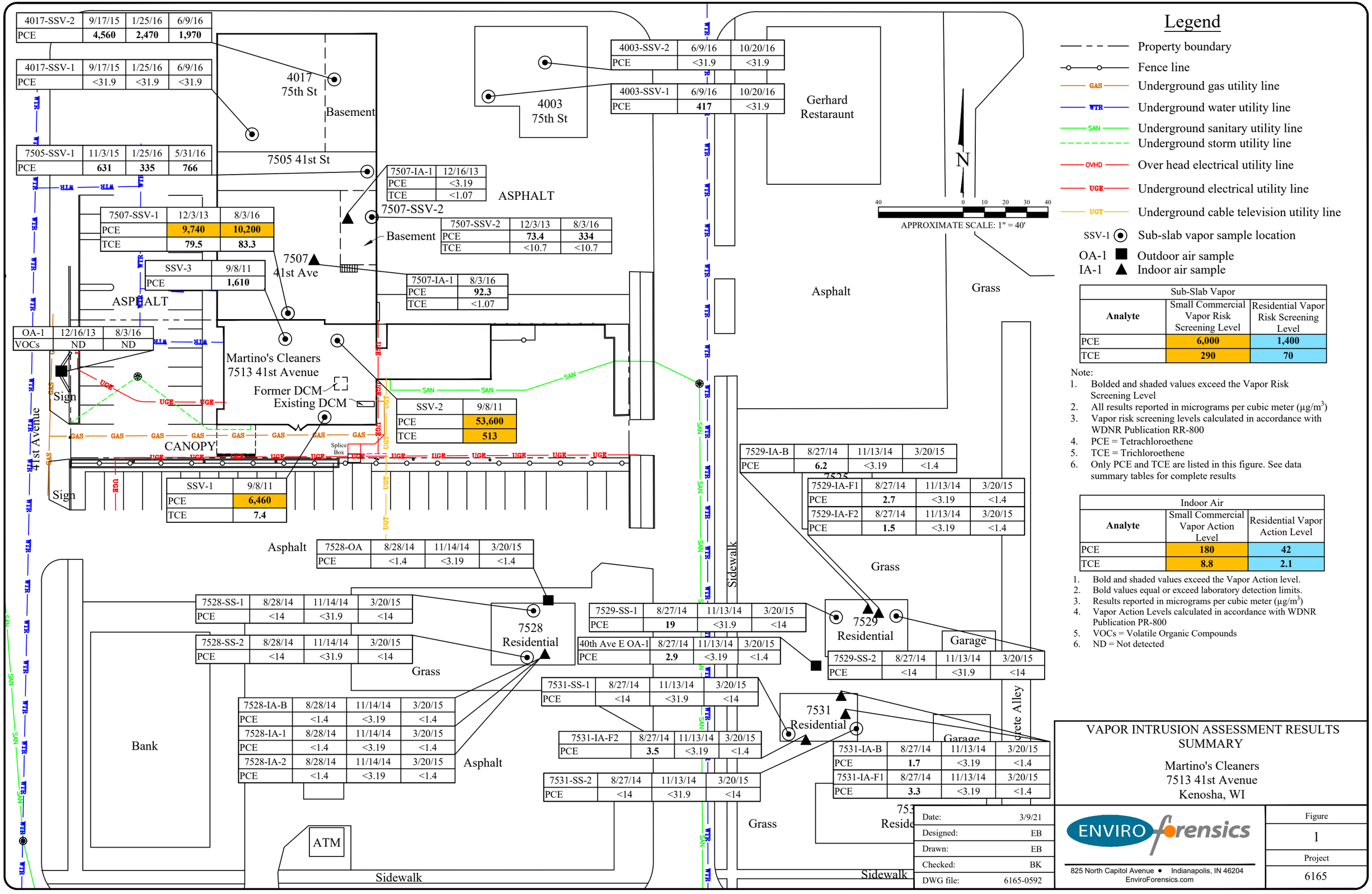
Bolded values are above detection limits

Bolded and shaded concentrations exceed the applicable non-residential screening or action level

NE = Not Established

TABLE 5
VAPOR INTRUSION ASSESSMENT STATUS SUMMARY
Martino's Master Dry Cleaners
7513 41st Avenue, Kenosha, Wisconsin

Address	Property Type	Vapor Intrusion Assessment Status	Notes
4003 75th Street	Small Commercial	Assessed and screened out	Two sampling events completed; further from source than adjacent buildings.
4017 75th Street	Small Commercial	Assessed and screened out	Three sampling events completed, including one in January.
7505 41st Avenue	Small Commercial	Assessed and screened out	Three sampling events completed, including one in January.
7507 41st Avenue	Small Commercial	Assessed; mitigation recommended	Property owner denied access for mitigation system installation.
7513 41st Avenue	Small Commercial	Assessed and mitigated	Soil vapor extraction under the building is also ongoing.
7528 40th Avenue	Residential	Assessed and screened out	Three sampling events completed (August, November, and March)
7529 40th Avenue	Residential	Assessed and screened out	Three sampling events completed (August, November, and March)
7531 40th Avenue	Residential	Assessed and screened out	Three sampling events completed (August, November, and March)


4017-SSV-2 | 9/17/15 | 1/25/16 | 6/9/16
PCE | 4,560 | 2,470 | 1,970
4017-SSV-1 | 9/17/15 | 1/25/16 | 6/9/16
PCE | <31.9 | <31.9 | <31.9
7505-SSV-1 | 11/3/15 | 1/25/16 | 5/31/16
PCE | 631 | 335 | 766
4017
75th St
Basement
7505 41st St
4003
75th St
4003-SSV-2 | 6/9/16 | 10/20/16
PCE | <31.9 | <31.9
4003-SSV-1 | 6/9/16 | 10/20/16
PCE | 417 | <31.9
Gerhard
Restaraunt
N
40 0 10 20 30 40
APPROXIMATE SCALE: 1" = 40'
7507-IA-1 | 12/16/13
PCE | <3.19
TCE | <1.07
ASPHALT
7507-SSV-2
7507-SSV-1 | 12/3/13 | 8/3/16
PCE | 9,740 | 10,200
TCE | 79.5 | 83.3
7507-SSV-2 | 12/3/13 | 8/3/16
PCE | 73.4 | 334
TCE | <10.7 | <10.7
Basement
7507
41st Ave
SSV-3 | 9/8/11
PCE | 1,610
7507-IA-1 | 8/3/16
PCE | 92.3
TCE | <1.07
ASPHALT
Asphalt
Grass
OA-1 | 12/16/13 | 8/3/16
VOCs | ND | ND
Martino's Cleaners
7513 41st Avenue
Former DCM
Existing DCM
Sign
41st Avenue
SSV-2 | 9/8/11
PCE | 53,600
TCE | 513
CANOPY
Splice Box
SSV-1 | 9/8/11
PCE | 6,460
TCE | 7.4
Sign
7529-IA-B | 8/27/14 | 11/13/14 | 3/20/15
PCE | 6.2 | <3.19 | <1.4
7529-IA-F1 | 8/27/14 | 11/13/14 | 3/20/15
PCE | 2.7 | <3.19 | <1.4
7529-IA-F2 | 8/27/14 | 11/13/14 | 3/20/15
PCE | 1.5 | <3.19 | <1.4
Asphalt
7528-OA | 8/28/14 | 11/14/14 | 3/20/15
PCE | <1.4 | <3.19 | <1.4
Sidewalk
Grass
7528-SS-1 | 8/28/14 | 11/14/14 | 3/20/15
PCE | <14 | <31.9 | <14
7528-SS-2 | 8/28/14 | 11/14/14 | 3/20/15
PCE | <14 | <31.9 | <14
7528
Residential
7529-SS-1 | 8/27/14 | 11/13/14 | 3/20/15
PCE | 19 | <31.9 | <14
40th Ave E OA-1 | 8/27/14 | 11/13/14 | 3/20/15
PCE | 2.9 | <3.19 | <1.4
7529
Residential
Garage
7529-SS-2 | 8/27/14 | 11/13/14 | 3/20/15
PCE | <14 | <31.9 | <14
7531-SS-1 | 8/27/14 | 11/13/14 | 3/20/15
PCE | <14 | <31.9 | <14
7528-IA-B | 8/28/14 | 11/14/14 | 3/20/15
PCE | <1.4 | <3.19 | <1.4
7528-IA-1 | 8/28/14 | 11/14/14 | 3/20/15
PCE | <1.4 | <3.19 | <1.4
7528-IA-2 | 8/28/14 | 11/14/14 | 3/20/15
PCE | <1.4 | <3.19 | <1.4
Bank
Asphalt
7531-IA-F2 | 8/27/14 | 11/13/14 | 3/20/15
PCE | 3.5 | <3.19 | <1.4
7531-SS-2 | 8/27/14 | 11/13/14 | 3/20/15
PCE | <14 | <31.9 | <14
7531
Residential
Garage
7531-IA-B | 8/27/14 | 11/13/14 | 3/20/15
PCE | 1.7 | <3.19 | <1.4
7531-IA-F1 | 8/27/14 | 11/13/14 | 3/20/15
PCE | 3.3 | <3.19 | <1.4
Concrete Alley
Grass
Sidewalk
ATM
Sidewalk
Legend
Property boundary
Fence line
GAS Underground gas utility line
WTR Underground water utility line
SAN Underground sanitary utility line
Underground storm utility line
OVHD Over head electrical utility line
UGE Underground electrical utility line
UGT Underground cable television utility line
SSV-1 Sub-slab vapor sample location
OA-1 Outdoor air sample
IA-1 Indoor air sample
Sub-Slab Vapor
Analyte | Small Commercial Vapor Risk Screening Level | Residential Vapor Risk Screening Level
PCE | 6,000 | 1,400
TCE | 290 | 70
Note:
1. Bolded and shaded values exceed the Vapor Risk Screening Level
2. All results reported in micrograms per cubic meter (µg/m3)
3. Vapor risk screening levels calculated in accordance with WDNR Publication RR-800
4. PCE = Tetrachloroethene
5. TCE = Trichloroethene
6. Only PCE and TCE are listed in this figure. See data summary tables for complete results
Indoor Air
Analyte | Small Commercial Vapor Action Level | Residential Vapor Action Level
PCE | 180 | 42
TCE | 8.8 | 2.1
1. Bold and shaded values exceed the Vapor Action level.
2. Bold values equal or exceed laboratory detection limits.
3. Results reported in micrograms per cubic meter (µg/m3)
4. Vapor Action Levels calculated in accordance with WDNR Publication PR-800
5. VOCs = Volatile Organic Compounds
6. ND = Not detected
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY
Martino's Cleaners
7513 41st Avenue
Kenosha, WI
Date: 3/9/21
Designed: EB
Drawn: EB
Checked: BK
DWG file: 6165-0592
ENVIROforensics
825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com
Figure
1
Project
6165

EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

October 6, 2015

ENVision Project Number: 2015-556
Client Project Name: 6165 – Martino's 41st

Dear Mr. Kappen,

Please find the attached analytical report for the samples received September 22, 2015. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

David Norris

Client Services Manager
EnvisionAir

EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6165 MARTINOS 41ST

Client Project Manager: KYLE HEIMSTEAD

EnvisionAir Project Number: 2015-556

Sample Summary

Canister Pressure / Vacuum

Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
15-2057	6165-4017-SSV-1	A	9/17/15	9:30	9/17/15	9:37	9/22/15	13:10	-29	-2	-2
15-2058	6165-4017-SSV-2	A	9/17/15	9:20	9/17/15	9:26	9/22/15	13:10	-29	-2	-2

EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6165 MARTINOS 41ST

Client Project Manager: KYLE HEIMSTEAD

EnvisionAir Project Number: 2015-556

Analytical Method: TO-15
Analytical Batch: 092915AIR

Client Sample ID: 6165-4017-SSV-1
Envision Sample Number: 15-2057
Sample Matrix: AIR

Sample Collection START Date/Time: 9/17/15 9:30
Sample Collection END Date/Time: 9/17/15 9:37
Sample Received Date/Time: 9/22/15 13:10

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	< 49.2	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	< 49.2	49.2	2
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	< 16.0	16.0	2
Benzyl Chloride	< 4.14	4.14	1,2
Bromodichloromethane	< 5.36	5.36	1,2
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

EnvisionAir
1441 Sadlier Circle West Drive
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Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	< 86.8	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	< 4670	4670	2
m,p-Xylene	< 434	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	< 4100	4100	2
N-Hexane	< 1760	1760	2
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	< 31.9	31.9	2
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichlorethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	95%		
Analysis Date/Time:	09-29-15/08:39		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6165 MARTINOS 41ST

Client Project Manager: KYLE HEIMSTEAD

EnvisionAir Project Number: 2015-556

Analytical Method: TO-15
Analytical Batch: 092915AIR

Client Sample ID: 6165-4017-SSV-2
Envision Sample Number: 15-2058
Sample Matrix: AIR

Sample Collection START Date/Time: 9/17/15 9:20
Sample Collection END Date/Time: 9/17/15 9:26
Sample Received Date/Time: 9/22/15 13:10

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	**917**	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	**1,990**	49.2	3
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	**561**	16.0	2
Benzyl Chloride	< 4.14	4.14	1,2
Bromodichloromethane	< 5.36	5.36	1,2
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	**273**	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	**132,000**	747000	5,6
m,p-Xylene	< 434	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	**2,000**	328000	4,6
N-Hexane	**6,770**	141000	4,6
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	**4,560**	2550	4
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichlorethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	113%		
Analysis Date/Time:	09-29-15/09:17		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 092915AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Analytical Report

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichlorethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	09-28-15/18:20		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	8.98	9.22	10	90%	92%	2.6%	
Dichlorodifluoromethane	9.66	9.66	10	97%	97%	0.0%	
Chloromethane	9.73	9.39	10	97%	94%	3.6%	
Vinyl Chloride	8.73	9.62	10	87%	96%	9.7%	
1,3-Butadiene	8.9	9.31	10	89%	93%	4.5%	
Bromomethane	10.2	9.82	10	102%	98%	3.8%	
Chloroethane	9.31	9.82	10	93%	98%	5.3%	
Vinyl Bromide	11.4	11.4	10	114%	114%	0.0%	
Trichlorofluoromethane	11.2	11.2	10	112%	112%	0.0%	
Acetone	9.05	9.27	10	91%	93%	2.4%	
1,1-Dichloroethene	10.2	10.3	10	102%	103%	1.0%	
Methylene Chloride	9.2	9.7	10	92%	97%	5.3%	
Carbon Disulfide	10.2	10	10	102%	100%	2.0%	
trans-1,2-Dichloroethene	10.4	10.4	10	104%	104%	0.0%	
Methyl-tert-butyl ether	9.87	9.95	10	99%	100%	0.8%	
1,1-Dichloroethane	9.77	9.91	10	98%	99%	1.4%	
Vinyl Acetate	10.2	10.6	10	102%	106%	3.8%	
N-Hexane	9.89	9.87	10	99%	99%	0.2%	
2-Butanone (MEK)	10.4	10.5	10	104%	105%	1.0%	
cis-1,2-Dichloroethene	9.71	10.1	10	97%	101%	3.9%	
Ethyl Acetate	9.64	9.63	10	96%	96%	0.1%	
Chloroform	9.63	9.79	10	96%	98%	1.6%	
Tetrahydrofuran	9.48	9.86	10	95%	99%	3.9%	
1,2-Dichloroethane	9.74	9.76	10	97%	98%	0.2%	
1,1,1-Trichloroethane	9.57	9.73	10	96%	97%	1.7%	
Carbon Tetrachloride	9.4	9.55	10	94%	96%	1.6%	
Benzene	9.69	10.1	10	97%	101%	4.1%	
Cyclohexane	8.81	8.72	10	88%	87%	1.0%	
1,2-Dichloropropane	9.74	9.88	10	97%	99%	1.4%	
Trichlorethene	9.57	9.57	10	96%	96%	0.0%	
Bromodichloromethane	9.79	9.8	10	98%	98%	0.1%	
1,4-Dioxane	8.96	9.75	10	90%	98%	8.4%	
Isooctane	9.13	9.57	10	91%	96%	4.7%	
N-Heptane	9.42	10.1	10	94%	101%	7.0%	
cis-1,3-Dichloropropene	9.45	9.61	10	95%	96%	1.7%	
4-Methyl-2-pentanone (MIBK)	9.69	9.97	10	97%	100%	2.8%	
trans-1,3-Dichloropropene	9.42	9.4	10	94%	94%	0.2%	
1,1,2-Trichloroethane	9.38	9.57	10	94%	96%	2.0%	
Toluene	9.68	9.88	10	97%	99%	2.0%	
2-Hexanone	9.94	10.2	10	99%	102%	2.6%	
Dibromochloromethane	8.94	9.46	10	89%	95%	5.7%	
1,2-dibromoethane (EDB)	9.03	9.39	10	90%	94%	3.9%	
Tetrachloroethene	9.41	9.96	10	94%	100%	5.7%	
Chlorobenzene	9.43	9.76	10	94%	98%	3.4%	
Ethylbenzene	9.09	9.62	10	91%	96%	5.7%	
m,p-Xylene	18.1	19	20	91%	95%	4.9%	
Bromoform	9.21	9.63	10	92%	96%	4.5%	

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LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	9.56	9.95	10	96%	100%	4.0%	
1,1,2,2-Tetrachloroethane	8.96	9.32	10	90%	93%	3.9%	
o-Xylene	9.28	10.1	10	93%	101%	8.5%	
4-Ethyltoluene	8.87	9.3	10	89%	93%	4.7%	
1,3,5-Trimethylbenzene	9.05	9.3	10	91%	93%	2.7%	
1,2,4-Trimethylbenzene	8.92	9.32	10	89%	93%	4.4%	
1,3-Dichlorobenzene	9.08	9.39	10	91%	94%	3.4%	
Benzyl Chloride	9.35	9.87	10	94%	99%	5.4%	
1,4-Dichlorobenzene	9.76	10.1	10	98%	101%	3.4%	
1,2-Dichlorobenzene	9.44	9.89	10	94%	99%	4.7%	
1,2,4-Trichlorobenzene	10.1	10.6	10	101%	106%	4.8%	
Hexachloro-1,3-butadiene	8.7	9.21	10	87%	92%	5.7%	
4-bromofluorobenzene (surrogate)	96%	97%					
Analysis Date/Time:	09-28-15/16:17	09-28-15/16:59					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	Reported value is from a 10x dilution. TJG 10-06-15
3	Reported value is estimated due to linear range exceedance.
4	Reported value is from a 800x dilution. TJG 10-06-15
5	Reported value is from a 1600x dilution. TJG 10-06-15
6	Reported value is below the reporting limit but above the MDL.

EnvisionAir Proj#: 2015-556 Page 1 of 1 BJK

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: EnviroForensics	P.O. Number: 2015827
Report Address: N16 W23390 Stone Ridge Dr Waukesha WI 53188	Project Name or Number: 6165 Martinos 41st
Report To: B. Kappen / K. Heimstead	Sampled by: K. Heimstead
Phone: 317-972-7870	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days ~~Std (5 bus. days)~~	Media type: 1LC = 1 Liter Canister; 6LC = 6 Liter Canister; TB = Tedlar Bag; TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List | TO-15 Short List

ENVISIONAIR

Sampling Type:
Soil-Gas: ☐
Sub-Slab: ☒
Indoor-Air: ☐

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Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)	TO-15 Full List	TO-15 Short List			Canister Serial #	Flow Controller Serial #	Canister Pressure / Vacuum: Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-4017-SSV-1	1LC	9-17-15	930	9-17-15	937	X				84047	-	-29	-2	-2	15-2057
6165-4017-SSV-2	1LC	9-17-15	920	9-17-15	926	X				83737	-	-29	-2	-2	15-2058

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
			Stanley A. Hummel	9/22/15	13:10

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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

November 19, 2015

ENVision Project Number: 2015-596
Client Project Name: 6165 – Martino's 41st

Dear Mr. Kappen,

Please find the attached analytical report for the samples received November 5, 2015. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

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Client Name: ENVIROFORENSICS

Project ID: 6165 MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2015-596

Sample Summary

									Canister Pressure / Vacuum		
Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
15-2209	6165-7505-SSV-1	A	11/3/15	9:42	11/3/15	9:47	11/5/15	10:55	-29	-2	-2

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Client Name: ENVIROFORENSICS

Project ID: 6165 MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2015-596

Analytical Method: TO-15
Analytical Batch: 111215AIR

Client Sample ID: 6165-7505-SSV-1
Envision Sample Number: 15-2209
Sample Matrix: AIR

Sample Collection START Date/Time: 11/3/15 9:42
Sample Collection END Date/Time: 11/3/15 9:47
Sample Received Date/Time: 11/5/15 10:55

Compounds	Sample Results mg/m³	Reporting Limit mg/m³	Flag
4-Ethyltoluene	< 4.92	4.92	2
4-Methyl-2-pentanone (MIBK)	< 20.5	20.5	2
1,1,1-Trichloroethane	< 5.46	5.46	2
1,1,2,2-Tetrachloroethane	< 0.0034	0.0034	1,2
1,1,2-Trichloroethane	< 0.0021	0.0021	1,2
1,1-Dichloroethane	< 0.040	0.040	2
1,1-Dichloroethene	< 1.98	1.98	2
1,2,4-Trichlorobenzene	< 0.0074	0.0074	2
1,2,4-Trimethylbenzene	< 0.049	0.049	2
1,2-dibromoethane (EDB)	< 0.00032	0.00032	1,2
1,2-Dichlorobenzene	< 0.60	0.60	2
1,2-Dichloroethane	< 0.0040	0.0040	2
1,2-Dichloropropane	< 0.0046	0.0046	2
1,3,5-Trimethylbenzene	< 0.049	0.049	2
1,3-Butadiene	< 0.0022	0.0022	2
1,3-Dichlorobenzene	< 0.60	0.60	2
1,4-Dichlorobenzene	< 0.0060	0.0060	2
1,4-Dioxane	< 0.018	0.018	2
2-Butanone (MEK)	< 29.5	29.5	2
2-Hexanone	< 0.20	0.20	2
Acetone	< 23.8	23.8	2
Benzene	< 0.016	0.016	2
Benzyl Chloride	< 0.0041	0.0041	1,2
Bromodichloromethane	< 0.0054	0.0054	1,2
Bromoform	< 0.10	0.10	2
Bromomethane	< 0.039	0.039	2
Carbon Disulfide	< 3.11	3.11	2
Carbon Tetrachloride	< 0.0063	0.0063	2
Chlorobenzene	< 0.23	0.23	2
Chloroethane	< 0.13	0.13	2

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Compounds	Sample Results mg/m³	Reporting Limit mg/m³	Flag
Chloroform	< 0.0083	0.0083	2
Chloromethane	< 0.21	0.21	2
cis-1,2-Dichloroethene	< 0.20	0.20	2
cis-1,3-Dichloropropene	< 0.045	0.045	2
Cyclohexane	< 55.1	55.1	2
Dibromochloromethane	< 0.0085	0.0085	2
Dichlorodifluoromethane	< 0.49	0.49	2
Ethyl Acetate	< 18.0	18.0	2
Ethylbenzene	< 0.087	0.087	2
Hexachloro-1,3-butadiene	< 0.011	0.011	2
Isooctane	< 4.67	4.67	2
m,p-Xylene	< 0.43	0.43	2
Methylene Chloride	< 0.42	0.42	2
Methyl-tert-butyl ether	< 0.36	0.36	2
N-Heptane	< 4.10	4.10	2
N-Hexane	< 1.76	1.76	2
o-Xylene	< 0.43	0.43	2
Propylene	< 1.72	1.72	2
Styrene	< 4.26	4.26	2
Tetrachloroethene	**0.631**	0.032	2
Tetrahydrofuran	< 2.95	2.95	2
Toluene	< 37.7	37.7	2
trans-1,2-Dichloroethene	< 0.40	0.40	2
trans-1,3-Dichloropropene	< 0.045	0.045	2
Trichlorethene	< 0.011	0.011	2
Trichlorofluoromethane	< 5.62	5.62	2
Vinyl Acetate	< 1.76	1.76	2
Vinyl Bromide	< 0.0044	0.0044	2
Vinyl Chloride	< 0.013	0.013	2
4-bromofluorobenzene (surrogate)	115%		
Analysis Date/Time:	11-12-15/19:59		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 111215AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichlorethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	123%		
Analysis Date/Time:	11-12-15/14:29		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	8.37	8.82	10	84%	88%	5.2%	
Dichlorodifluoromethane	11.2	11.3	10	112%	113%	0.9%	
Chloromethane	8.6	9.35	10	86%	94%	8.4%	
Vinyl Chloride	9.78	10.2	10	98%	102%	4.2%	
1,3-Butadiene	10.6	10.9	10	106%	109%	2.8%	
Bromomethane	10.3	10.9	10	103%	109%	5.7%	
Chloroethane	9.8	10.8	10	98%	108%	9.7%	
Vinyl Bromide	10.2	9.91	10	102%	99%	2.9%	
Trichlorofluoromethane	12	11.3	10	120%	113%	6.0%	
Acetone	9.57	10.9	10	96%	109%	13.0%	
1,1-Dichloroethene	10.2	10.7	10	102%	107%	4.8%	
Methylene Chloride	8.79	8.59	10	88%	86%	2.3%	
Carbon Disulfide	8.33	9.67	10	83%	97%	14.9%	
trans-1,2-Dichloroethene	9.25	9.17	10	93%	92%	0.9%	
Methyl-tert-butyl ether	10.5	10.7	10	105%	107%	1.9%	
1,1-Dichloroethane	9.7	10.1	10	97%	101%	4.0%	
Vinyl Acetate	10	10.2	10	100%	102%	2.0%	
N-Hexane	9.4	9.64	10	94%	96%	2.5%	
2-Butanone (MEK)	9.38	9.53	10	94%	95%	1.6%	
cis-1,2-Dichloroethene	9.84	10	10	98%	100%	1.6%	
Ethyl Acetate	9.31	9.47	10	93%	95%	1.7%	
Chloroform	10.3	10.5	10	103%	105%	1.9%	
Tetrahydrofuran	9.92	8.62	10	99%	86%	14.0%	
1,2-Dichloroethane	9.95	10.6	10	100%	106%	6.3%	
1,1,1-Trichloroethane	11	9.91	10	110%	99%	10.4%	
Carbon Tetrachloride	11	10.1	10	110%	101%	8.5%	
Benzene	9.04	8.37	10	90%	84%	7.7%	
Cyclohexane	8.21	8.58	10	82%	86%	4.4%	
1,2-Dichloropropane	9.06	8.12	10	91%	81%	10.9%	
Trichlorethene	10.7	9.84	10	107%	98%	8.4%	
Bromodichloromethane	12.3	11.5	10	123%	115%	6.7%	
1,4-Dioxane	11.4	9.39	10	114%	94%	19.3%	
Isooctane	8.86	8.28	10	89%	83%	6.8%	
N-Heptane	9.2	9.38	10	92%	94%	1.9%	
cis-1,3-Dichloropropene	10.5	9.83	10	105%	98%	6.6%	
4-Methyl-2-pentanone (MIBK)	11.9	11.2	10	119%	112%	6.1%	
trans-1,3-Dichloropropene	10.9	10.2	10	109%	102%	6.6%	
1,1,2-Trichloroethane	9.89	8.97	10	99%	90%	9.8%	
Toluene	10	9.29	10	100%	93%	7.4%	
2-Hexanone	12.5	11.7	10	125%	117%	6.6%	
Dibromochloromethane	10.6	11.1	10	106%	111%	4.6%	
1,2-dibromoethane (EDB)	9.57	9.99	10	96%	100%	4.3%	
Tetrachloroethene	10	10.4	10	100%	104%	3.9%	
Chlorobenzene	9.5	9.79	10	95%	98%	3.0%	
Ethylbenzene	9.05	9.42	10	91%	94%	4.0%	
m,p-Xylene	19.8	18.7	20	99%	94%	5.7%	
Bromoform	10.7	11.1	10	107%	111%	3.7%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	8.81	9.23	10	88%	92%	4.7%	
1,1,2,2-Tetrachloroethane	8.32	8.61	10	83%	86%	3.4%	
o-Xylene	8.21	8.71	10	82%	87%	5.9%	
4-Ethyltoluene	8.77	9.17	10	88%	92%	4.5%	
1,3,5-Trimethylbenzene	8.97	9.38	10	90%	94%	4.5%	
1,2,4-Trimethylbenzene	9.29	9.66	10	93%	97%	3.9%	
1,3-Dichlorobenzene	9.57	10.2	10	96%	102%	6.4%	
Benzyl Chloride	9.88	10.3	10	99%	103%	4.2%	
1,4-Dichlorobenzene	9.78	10.3	10	98%	103%	5.2%	
1,2-Dichlorobenzene	9.61	9.99	10	96%	100%	3.9%	
1,2,4-Trichlorobenzene	11.3	11.8	10	113%	118%	4.3%	
Hexachloro-1,3-butadiene	9.67	9.97	10	97%	100%	3.1%	
4-bromofluorobenzene (surrogate)	113%	115%					
Analysis Date/Time:	11-12-15/13:48	11-12-15/15:52					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	Reported value is from a 10x dilution. TJG 11-18-15

BJK

EnvisionAir Proj#: 2015-596 Page 1 of 1

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: EnviroForensics	P.O. Number: 2015990
Report/Address: N16 W23390 Stone Ridge Dr. Waukesha WI 53188	Project Name or Number: 6165 Martino's 41st
Report To: B. Kappen / K. Heimstead	Sampled by: K. Heimstead
Phone: 317-972-7870	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) ug/m³ (mg/m³) PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days (Std (5 bus. days))	Media type: 1LC = 1 Liter Canister; 6LC = 6 Liter Canister; TB = Tedlar Bag; TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List

ENVISIONAIR

Sampling Type:
Soil-Gas: ☐
Sub-Slab: ☐
Indoor-Air: ☐

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Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-7505-SSV-1	1LC	11-3-15	942	11-3-15	947	x				83948	-	-29	-2	-2	15-2209

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11-4-15		FedEx	11-4-15	
			Stanley A. Kunniccott	11/5/15	10:55a

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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

February 8, 2016

EnvisionAir Project Number: 2016-57
Client Project Name: 6165 / Martino's 41st

Dear Mr. Kappen,

Please find the attached analytical report for the samples received February 1, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-57

Sample Summary

									Canister Pressure / Vacuum		
Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
16-280	6165-7505-SSV-1	A	1/25/16	11:09	1/25/16	11:17	1/29/16	10:40	-29	-2	-2

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-57

Analytical Method: TO-15
Analytical Batch: 020316AIR

Client Sample ID: 6165-7505-SSV-1
Envision Sample Number: 16-280
Sample Matrix: AIR

Sample Collection START Date/Time: 1/25/16 11:09
Sample Collection END Date/Time: 1/25/16 11:17
Sample Received Date/Time: 2/1/16 10:00

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	< 49.2	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	< 49.2	49.2	2
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	< 16.0	16.0	2
Benzyl Chloride	< 4.14	4.14	1,2
Bromodichloromethane	< 5.36	5.36	1,2
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	< 86.8	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	< 4670	4670	2
m,p-Xylene	< 434	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	< 4100	4100	2
N-Hexane	< 1760	1760	2
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	**335**	31.9	2
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichlorethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	112%		
Analysis Date/Time:	02-03-16/05:06		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 020216AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichlorethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	101%		
Analysis Date/Time:	02-02-16/11:41		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	8.3	10.7	10	83%	107%	25.3%	3
Dichlorodifluoromethane	10.1	10.7	10	101%	107%	5.8%	
Chloromethane	10.3	10.8	10	103%	108%	4.7%	
Vinyl Chloride	10.5	11.1	10	105%	111%	5.6%	
1,3-Butadiene	9.12	9.24	10	91%	92%	1.3%	
Bromomethane	10.3	11.2	10	103%	112%	8.4%	
Chloroethane	10.6	10.9	10	106%	109%	2.8%	
Vinyl Bromide	10.6	11.1	10	106%	111%	4.6%	
Trichlorofluoromethane	9.7	8.2	10	97%	82%	16.8%	
Acetone	10.5	9.93	10	105%	99%	5.6%	
1,1-Dichloroethene	10.4	8.49	10	104%	85%	20.2%	3
Methylene Chloride	10.3	9.57	10	103%	96%	7.3%	
Carbon Disulfide	10.6	10.3	10	106%	103%	2.9%	
trans-1,2-Dichloroethene	10.7	10.8	10	107%	108%	0.9%	
Methyl-tert-butyl ether	10.4	9.49	10	104%	95%	9.2%	
1,1-Dichloroethane	10.5	10.1	10	105%	101%	3.9%	
Vinyl Acetate	10.1	9.7	10	101%	97%	4.0%	
N-Hexane	9.97	9.74	10	100%	97%	2.3%	
2-Butanone (MEK)	10.9	10.6	10	109%	106%	2.8%	
cis-1,2-Dichloroethene	10.4	10	10	104%	100%	3.9%	
Ethyl Acetate	9.93	9.72	10	99%	97%	2.1%	
Chloroform	10.2	10.2	10	102%	102%	0.0%	
Tetrahydrofuran	11	10.8	10	110%	108%	1.8%	
1,2-Dichloroethane	10.4	10.6	10	104%	106%	1.9%	
1,1,1-Trichloroethane	10	10.4	10	100%	104%	3.9%	
Carbon Tetrachloride	10.1	10.4	10	101%	104%	2.9%	
Benzene	9.98	10.2	10	100%	102%	2.2%	
Cyclohexane	10.3	10.4	10	103%	104%	1.0%	
1,2-Dichloropropane	10.4	10.5	10	104%	105%	1.0%	
Trichlorethene	10.1	10.6	10	101%	106%	4.8%	
Bromodichloromethane	10.1	10.5	10	101%	105%	3.9%	
1,4-Dioxane	9.55	9.66	10	96%	97%	1.1%	
Isooctane	8.59	8.98	10	86%	90%	4.4%	
N-Heptane	9.76	9.95	10	98%	100%	1.9%	
cis-1,3-Dichloropropene	10.8	10.9	10	108%	109%	0.9%	
4-Methyl-2-pentanone (MIBK)	11.1	11.5	10	111%	115%	3.5%	
trans-1,3-Dichloropropene	11	11.2	10	110%	112%	1.8%	
1,1,2-Trichloroethane	10.4	10.8	10	104%	108%	3.8%	
Toluene	9.58	10.2	10	96%	102%	6.3%	
2-Hexanone	10.7	11.3	10	107%	113%	5.5%	
Dibromochloromethane	10.5	11	10	105%	110%	4.7%	
1,2-dibromoethane (EDB)	10.5	11	10	105%	110%	4.7%	
Tetrachloroethene	10.1	10.6	10	101%	106%	4.8%	
Chlorobenzene	10.2	10.8	10	102%	108%	5.7%	
Ethylbenzene	9.16	10	10	92%	100%	8.8%	
m,p-Xylene	18.3	20.1	20	92%	101%	9.4%	
Bromoform	10.2	10.6	10	102%	106%	3.8%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	10.6	11.3	10	106%	113%	6.4%	
1,1,2,2-Tetrachloroethane	9.88	10.4	10	99%	104%	5.1%	
o-Xylene	10.3	11	10	103%	110%	6.6%	
4-Ethyltoluene	8.62	9.51	10	86%	95%	9.8%	
1,3,5-Trimethylbenzene	9.17	10	10	92%	100%	8.7%	
1,2,4-Trimethylbenzene	9.58	10.4	10	96%	104%	8.2%	
1,3-Dichlorobenzene	10.5	10.8	10	105%	108%	2.8%	
Benzyl Chloride	11	11.5	10	110%	115%	4.4%	
1,4-Dichlorobenzene	10.8	11.1	10	108%	111%	2.7%	
1,2-Dichlorobenzene	10.7	11.7	10	107%	117%	8.9%	
1,2,4-Trichlorobenzene	9.86	11.2	10	99%	112%	12.7%	
Hexachloro-1,3-butadiene	9.76	10.8	10	98%	108%	10.1%	
4-bromofluorobenzene (surrogate)	99%	98%					
Analysis Date/Time:	02-02-16/11:03	02-02-16/21:00					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	Reported value is from a 10x dilution. TJG 02-08-16
3	RPD is biased high but recoveries are within control.

EnvisionAir Proj#: 2016-57 Page 1 of 1 BJK

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: EnviroForensics	P.O. Number: 2016053
Report/Address: N16 W23390 Stone Ridge Dr Waukesha WI 53188	Project Name or Number: 6165 Martino's 41st
Report To: B. Kappers / K. Hennstead	Sampled by: K. Hennstead
Phone: 317-972-7870	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List

ENVISIONAIR

Sampling Type:
Soil-Gas: ☐
Sub-Slab: ☒
Indoor-Air: ☐

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Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-7505-SSV-1	1LC	1-25-16	1109	1-25-16	1117	X				83831	—	-29	-2	-2	16-280

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	1-26-16		FedEx	1-26-16	
			~~Stanley D. Hennicott~~	2/1/16	1000

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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

February 8, 2016

EnvisionAir Project Number: 2016-58
Client Project Name: 6165 / Martino's 41st

Dear Mr. Kappen,

Please find the attached analytical report for the samples received February 1, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-58

Sample Summary

									Canister Pressure / Vacuum		
Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
16-281	6165-4017-SSV-1	A	1/25/16	10:22	1/25/16	10:28	1/29/16	10:40	-29	-2	-2
16-282	6165-4017-SSV-2	A	1/25/16	10:42	1/25/16	10:47	1/29/16	10:40	-28	-2	-2

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-58

Analytical Method: TO-15
Analytical Batch: 020316AIR

Client Sample ID: 6165-4017-SSV-1
Envision Sample Number: 16-281
Sample Matrix: AIR

Sample Collection START Date/Time: 1/25/16 10:22
Sample Collection END Date/Time: 1/25/16 10:28
Sample Received Date/Time: 2/1/16 10:00

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	< 49.2	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	< 49.2	49.2	2
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	**32.6**	16.0	2
Benzyl Chloride	< 4.14	4.14	1,2
Bromodichloromethane	< 5.36	5.36	1,2
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	< 86.8	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	< 4670	4670	2
m,p-Xylene	< 434	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	< 4100	4100	2
N-Hexane	< 1760	1760	2
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	< 31.9	31.9	2
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichlorethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	116%		
Analysis Date/Time:	02-03-16/05:46		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-58

Analytical Method: TO-15
Analytical Batch: 020316AIR

Client Sample ID: 6165-4017-SSV-2
Envision Sample Number: 16-282
Sample Matrix: AIR

Sample Collection START Date/Time: 1/25/16 10:42
Sample Collection END Date/Time: 1/25/16 10:47
Sample Received Date/Time: 2/1/16 10:00

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	< 49.2	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	< 49.2	49.2	2
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	< 16.0	16.0	2
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	< 86.8	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	< 4670	4670	2
m,p-Xylene	< 434	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	< 4100	4100	2
N-Hexane	< 1760	1760	2
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	**2,470**	1280	3
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichlorethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	104%		
Analysis Date/Time:	02-03-16/06:25		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 020216AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Analytical Report

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichlorethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	101%		
Analysis Date/Time:	02-02-16/11:41		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	8.3	10.7	10	83%	107%	25.3%	4
Dichlorodifluoromethane	10.1	10.7	10	101%	107%	5.8%	
Chloromethane	10.3	10.8	10	103%	108%	4.7%	
Vinyl Chloride	10.5	11.1	10	105%	111%	5.6%	
1,3-Butadiene	9.12	9.24	10	91%	92%	1.3%	
Bromomethane	10.3	11.2	10	103%	112%	8.4%	
Chloroethane	10.6	10.9	10	106%	109%	2.8%	
Vinyl Bromide	10.6	11.1	10	106%	111%	4.6%	
Trichlorofluoromethane	9.7	8.2	10	97%	82%	16.8%	
Acetone	10.5	9.93	10	105%	99%	5.6%	
1,1-Dichloroethene	10.4	8.49	10	104%	85%	20.2%	4
Methylene Chloride	10.3	9.57	10	103%	96%	7.3%	
Carbon Disulfide	10.6	10.3	10	106%	103%	2.9%	
trans-1,2-Dichloroethene	10.7	10.8	10	107%	108%	0.9%	
Methyl-tert-butyl ether	10.4	9.49	10	104%	95%	9.2%	
1,1-Dichloroethane	10.5	10.1	10	105%	101%	3.9%	
Vinyl Acetate	10.1	9.7	10	101%	97%	4.0%	
N-Hexane	9.97	9.74	10	100%	97%	2.3%	
2-Butanone (MEK)	10.9	10.6	10	109%	106%	2.8%	
cis-1,2-Dichloroethene	10.4	10	10	104%	100%	3.9%	
Ethyl Acetate	9.93	9.72	10	99%	97%	2.1%	
Chloroform	10.2	10.2	10	102%	102%	0.0%	
Tetrahydrofuran	11	10.8	10	110%	108%	1.8%	
1,2-Dichloroethane	10.4	10.6	10	104%	106%	1.9%	
1,1,1-Trichloroethane	10	10.4	10	100%	104%	3.9%	
Carbon Tetrachloride	10.1	10.4	10	101%	104%	2.9%	
Benzene	9.98	10.2	10	100%	102%	2.2%	
Cyclohexane	10.3	10.4	10	103%	104%	1.0%	
1,2-Dichloropropane	10.4	10.5	10	104%	105%	1.0%	
Trichlorethene	10.1	10.6	10	101%	106%	4.8%	
Bromodichloromethane	10.1	10.5	10	101%	105%	3.9%	
1,4-Dioxane	9.55	9.66	10	96%	97%	1.1%	
Isooctane	8.59	8.98	10	86%	90%	4.4%	
N-Heptane	9.76	9.95	10	98%	100%	1.9%	
cis-1,3-Dichloropropene	10.8	10.9	10	108%	109%	0.9%	
4-Methyl-2-pentanone (MIBK)	11.1	11.5	10	111%	115%	3.5%	
trans-1,3-Dichloropropene	11	11.2	10	110%	112%	1.8%	
1,1,2-Trichloroethane	10.4	10.8	10	104%	108%	3.8%	
Toluene	9.58	10.2	10	96%	102%	6.3%	
2-Hexanone	10.7	11.3	10	107%	113%	5.5%	
Dibromochloromethane	10.5	11	10	105%	110%	4.7%	
1,2-dibromoethane (EDB)	10.5	11	10	105%	110%	4.7%	
Tetrachloroethene	10.1	10.6	10	101%	106%	4.8%	
Chlorobenzene	10.2	10.8	10	102%	108%	5.7%	
Ethylbenzene	9.16	10	10	92%	100%	8.8%	
m,p-Xylene	18.3	20.1	20	92%	101%	9.4%	
Bromoform	10.2	10.6	10	102%	106%	3.8%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	10.6	11.3	10	106%	113%	6.4%	
1,1,2,2-Tetrachloroethane	9.88	10.4	10	99%	104%	5.1%	
o-Xylene	10.3	11	10	103%	110%	6.6%	
4-Ethyltoluene	8.62	9.51	10	86%	95%	9.8%	
1,3,5-Trimethylbenzene	9.17	10	10	92%	100%	8.7%	
1,2,4-Trimethylbenzene	9.58	10.4	10	96%	104%	8.2%	
1,3-Dichlorobenzene	10.5	10.8	10	105%	108%	2.8%	
Benzyl Chloride	11	11.5	10	110%	115%	4.4%	
1,4-Dichlorobenzene	10.8	11.1	10	108%	111%	2.7%	
1,2-Dichlorobenzene	10.7	11.7	10	107%	117%	8.9%	
1,2,4-Trichlorobenzene	9.86	11.2	10	99%	112%	12.7%	
Hexachloro-1,3-butadiene	9.76	10.8	10	98%	108%	10.1%	
4-bromofluorobenzene (surrogate)	99%	98%					
Analysis Date/Time:	02-02-16/11:03	02-02-16/21:00					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	Reported value is from a 10x dilution. TJG 02-08-16
3	Reported value is from a 400x dilution. TJG 02-08-16
4	RPD is biased high but recoveries are within control.

EnvisionAir Proj#: 2016-58 Page 1 of 1 BJK

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: EnviroForensics	P.O. Number: 6 2016053
Report/Address: NG W23390 Stone Ridge Dr. Waukesha WI 53188	Project Name or Number: 6165 Martinos 4/1st
Report To: B. Kapper/K. Hemmstead	Sampled by:
Phone: 317-972-7870	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List | TO-15 Short List

ENVISIONAIR

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Sampling Type:
Soil-Gas: ☐
Sub-Slab: ☑
Indoor-Air: ☐

Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)	TO-15 Full List	TO-15 Short List			Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-4017-SSV-1	1LC	1-25-16	1022	1-25-16	1028	x				83585	–	-29	-2	-2	16-281
6165-4017-SSV-2	1LC	1-25-16	1042	1-25-16	1047	x				2215	–	-28	-2	-2	16-282

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	1-26-16		FedEx	1-26-16	
			Stanley A. Hunnicutt	2/1/16	1000

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Fax: 317-351-0882
www.envision-air.com

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

June 8, 2016

EnvisionAir Project Number: 2016-352
Client Project Name: 6165 / Martino's 41st

Dear Mr. Kappen,

Please find the attached analytical report for the samples received June 2, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-352

Sample Summary

									Canister Pressure / Vacuum		
Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
16-1236	6165-7505-SSV-1	A	5/31/16	11:30	5/31/16	11:37	6/2/16	11:45	-29	-2	-2

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-352

Analytical Method: TO-15
Analytical Batch: 060616AIR

Client Sample ID: 6165-7505-SSV-1
Envision Sample Number: 16-1236
Sample Matrix: AIR

Sample Collection START Date/Time: 5/31/16 11:30
Sample Collection END Date/Time: 5/31/16 11:37
Sample Received Date/Time: 6/2/16 11:45

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	< 49.2	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	< 49.2	49.2	2
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	**31.6**	16.0	2
Benzyl Chloride	< 4.14	4.14	1,2
Bromodichloromethane	< 5.36	5.36	1,2
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	< 86.8	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	< 4670	4670	2
m,p-Xylene	< 434	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	< 4100	4100	2
N-Hexane	< 1760	1760	2
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	**766**	31.9	2
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichloroethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	6-6-16/18:07		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 060616AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Analytical Report

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichloroethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	95%		
Analysis Date/Time:	6-6-16/15:36		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	10.7	10.8	10	107%	108%	0.9%	
Dichlorodifluoromethane	10.2	10.2	10	102%	102%	0.0%	
Chloromethane	10	9.97	10	100%	100%	0.3%	
Vinyl Chloride	10.9	11.1	10	109%	111%	1.8%	
1,3-Butadiene	9.2	9.23	10	92%	92%	0.3%	
Bromomethane	9.92	10	10	99%	100%	0.8%	
Chloroethane	10.5	10.4	10	105%	104%	1.0%	
Vinyl Bromide	10.9	10.5	10	109%	105%	3.7%	
Trichlorofluoromethane	10.4	10.2	10	104%	102%	1.9%	
Acetone	8.08	10.1	10	81%	101%	22.2%	3
1,1-Dichloroethene	10.3	10.2	10	103%	102%	1.0%	
Methylene Chloride	8.36	8.16	10	84%	82%	2.4%	
Carbon Disulfide	9.88	9.82	10	99%	98%	0.6%	
trans-1,2-Dichloroethene	9.88	9.7	10	99%	97%	1.8%	
Methyl-tert-butyl ether	10.5	10.2	10	105%	102%	2.9%	
1,1-Dichloroethane	9.91	9.85	10	99%	99%	0.6%	
Vinyl Acetate	10.1	10	10	101%	100%	1.0%	
N-Hexane	10.2	10	10	102%	100%	2.0%	
2-Butanone (MEK)	10.6	10.4	10	106%	104%	1.9%	
cis-1,2-Dichloroethene	10.1	9.99	10	101%	100%	1.1%	
Ethyl Acetate	10.5	10.3	10	105%	103%	1.9%	
Chloroform	10.2	10.1	10	102%	101%	1.0%	
Tetrahydrofuran	10.6	9.84	10	106%	98%	7.4%	
1,2-Dichloroethane	10.7	10.4	10	107%	104%	2.8%	
1,1,1-Trichloroethane	10.7	10.3	10	107%	103%	3.8%	
Carbon Tetrachloride	10.7	10.5	10	107%	105%	1.9%	
Benzene	9.96	9.73	10	100%	97%	2.3%	
Cyclohexane	8.82	8.71	10	88%	87%	1.3%	
1,2-Dichloropropane	9.68	9.46	10	97%	95%	2.3%	
Trichloroethene	8.62	9.51	10	86%	95%	9.8%	
Bromodichloromethane	10.3	10.2	10	103%	102%	1.0%	
1,4-Dioxane	9.75	9.74	10	98%	97%	0.1%	
Isooctane	10.4	10.1	10	104%	101%	2.9%	
N-Heptane	10.7	10.4	10	107%	104%	2.8%	
cis-1,3-Dichloropropene	9.97	9.89	10	100%	99%	0.8%	
4-Methyl-2-pentanone (MIBK)	11.2	11	10	112%	110%	1.8%	
trans-1,3-Dichloropropene	10.4	10.1	10	104%	101%	2.9%	
1,1,2-Trichloroethane	9.7	9.53	10	97%	95%	1.8%	
Toluene	10.3	10.1	10	103%	101%	2.0%	
2-Hexanone	11.8	11.6	10	118%	116%	1.7%	
Dibromochloromethane	9.66	9.53	10	97%	95%	1.4%	
1,2-dibromoethane (EDB)	8.95	8.79	10	90%	88%	1.8%	
Tetrachloroethene	10.7	10.5	10	107%	105%	1.9%	
Chlorobenzene	9.28	9.14	10	93%	91%	1.5%	
Ethylbenzene	9.32	9.29	10	93%	93%	0.3%	
m,p-Xylene	18.3	18.1	20	92%	91%	1.1%	
Bromoform	10.9	10.9	10	109%	109%	0.0%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	9.57	9.46	10	96%	95%	1.2%	
1,1,2,2-Tetrachloroethane	9.09	9.02	10	91%	90%	0.8%	
o-Xylene	9.54	9.48	10	95%	95%	0.6%	
4-Ethyltoluene	9.68	9.65	10	97%	97%	0.3%	
1,3,5-Trimethylbenzene	9.35	9.27	10	94%	93%	0.9%	
1,2,4-Trimethylbenzene	9.64	9.51	10	96%	95%	1.4%	
1,3-Dichlorobenzene	10.2	10.1	10	102%	101%	1.0%	
Benzyl Chloride	11.2	11	10	112%	110%	1.8%	
1,4-Dichlorobenzene	10.5	10.2	10	105%	102%	2.9%	
1,2-Dichlorobenzene	10.1	9.99	10	101%	100%	1.1%	
1,2,4-Trichlorobenzene	10.5	10.1	10	105%	101%	3.9%	
Hexachloro-1,3-butadiene	11.7	10.9	10	117%	109%	7.1%	
4-bromofluorobenzene (surrogate)	93%	107%					
Analysis Date/Time:	6-6-16/14:19	6-6-16/15:01					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	Reported value is from a 10x dilution. TJG 6-7-16
3	RPD is biased high, but recoveries are within control. TJG 6-7-16

EnvisionAir Proj#: 2016-352 Page 1 of 1 BJT

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: Enviro Forensics	P.O. Number:
Report Address: N16 W23390 Stone Ridge Dr Waukesha WI 53188	Project Name or Number: 6165 Martino's - 41st
Report To: B. Kapper / K. Heimstead	Sampled by: K. Heimstead
Phone: 317-972-7870	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List | TO-15 Short List

ENVISIONAIR

Sampling Type:
Soil-Gas: ☐
Sub-Slab: ☑
Indoor-Air: ☐

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Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-7505-SSV-1	1LC	5-31-16	1130	5-31-16	1137	x				83729	—	-29	-2	-2	16-1236

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	6-1-2016	1000	FED EX	6-1-2016	
			Stan Munnicutt	6/2/16	11:45

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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

June 24, 2016

EnvisionAir Project Number: 2016-379
Client Project Name: 6165 / Martino's 41st

Dear Mr. Kappen,

Please find the attached analytical report for the samples received June 14, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-379

Sample Summary

											Canister Pressure / Vacuum
Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
16-1310	6165-4017-SSV-1	A	6/9/16	10:55	6/9/16	11:00	6/14/16	9:15	-29	-2	-2
16-1311	6165-4017-SSV-2	A	6/9/16	11:15	6/9/16	11:20	6/14/16	9:15	-28	-2	-2

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-379

Analytical Method: TO-15
Analytical Batch: 061516AIR

Client Sample ID: 6165-4017-SSV-1
Envision Sample Number: 16-1310
Sample Matrix: AIR

Sample Collection START Date/Time: 6/9/16 10:55
Sample Collection END Date/Time: 6/9/16 11:00
Sample Received Date/Time: 6/14/16 9:15

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	< 49.2	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	< 49.2	49.2	2
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	< 16.0	16.0	2
Benzyl Chloride	< 4.14	4.14	1,2
Bromodichloromethane	< 5.36	5.36	1,2
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	< 86.8	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	< 4670	4670	2
m,p-Xylene	< 434	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	< 4100	4100	2
N-Hexane	< 1760	1760	2
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	< 31.9	31.9	2
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichloroethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	6-16-16/17:15		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-379

Analytical Method: TO-15
Analytical Batch: 061516AIR

Client Sample ID: 6165-4017-SSV-2
Envision Sample Number: 16-1311
Sample Matrix: AIR

Sample Collection START Date/Time: 6/9/16 11:15
Sample Collection END Date/Time: 6/9/16 11:20
Sample Received Date/Time: 6/14/16 9:15

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	< 49.2	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	< 49.2	49.2	2
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	< 16.0	16.0	2
Benzyl Chloride	< 4.14	4.14	1,2
Bromodichloromethane	< 5.36	5.36	1,2
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	< 86.8	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	< 4670	4670	2
m,p-Xylene	< 434	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	< 4100	4100	2
N-Hexane	< 1760	1760	2
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	**1,970**	638	3
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichloroethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	6-16-16/17:51		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 061516AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichloroethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	6-16-16/10:32		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	9.27	9.51	10	93%	95%	2.6%	
Dichlorodifluoromethane	8.76	8.55	10	88%	86%	2.4%	
Chloromethane	9.09	9.86	10	91%	99%	8.1%	
Vinyl Chloride	8.55	8.85	10	86%	89%	3.4%	
1,3-Butadiene	8.8	8.24	10	88%	82%	6.6%	
Bromomethane	9.12	9.55	10	91%	96%	4.6%	
Chloroethane	8.45	8.94	10	85%	89%	5.6%	
Vinyl Bromide	8.87	9.52	10	89%	95%	7.1%	
Trichlorofluoromethane	9.78	10.5	10	98%	105%	7.1%	
Acetone	9.75	8.39	10	98%	84%	15.0%	
1,1-Dichloroethene	9.66	10.5	10	97%	105%	8.3%	
Methylene Chloride	8.92	8.48	10	89%	85%	5.1%	
Carbon Disulfide	9.79	10.4	10	98%	104%	6.0%	
trans-1,2-Dichloroethene	9.94	10.7	10	99%	107%	7.4%	
Methyl-tert-butyl ether	9.92	10.9	10	99%	109%	9.4%	
1,1-Dichloroethane	9.5	10.3	10	95%	103%	8.1%	
Vinyl Acetate	8.93	9.35	10	89%	94%	4.6%	
N-Hexane	9.63	10.3	10	96%	103%	6.7%	
2-Butanone (MEK)	9.4	9.97	10	94%	100%	5.9%	
cis-1,2-Dichloroethene	9.67	10.4	10	97%	104%	7.3%	
Ethyl Acetate	9.1	9.73	10	91%	97%	6.7%	
Chloroform	9.61	10.3	10	96%	103%	6.9%	
Tetrahydrofuran	10.2	10.5	10	102%	105%	2.9%	
1,2-Dichloroethane	9.5	9.81	10	95%	98%	3.2%	
1,1,1-Trichloroethane	10.1	10.3	10	101%	103%	2.0%	
Carbon Tetrachloride	9.83	10.2	10	98%	102%	3.7%	
Benzene	10.1	10.5	10	101%	105%	3.9%	
Cyclohexane	8.51	8.72	10	85%	87%	2.4%	
1,2-Dichloropropane	10.5	10.9	10	105%	109%	3.7%	
Trichloroethene	10.1	10.5	10	101%	105%	3.9%	
Bromodichloromethane	9.69	10.1	10	97%	101%	4.1%	
1,4-Dioxane	8.85	9.13	10	89%	91%	3.1%	
Isooctane	9.56	9.77	10	96%	98%	2.2%	
N-Heptane	9.78	10.2	10	98%	102%	4.2%	
cis-1,3-Dichloropropene	10.4	10.7	10	104%	107%	2.8%	
4-Methyl-2-pentanone (MIBK)	9.71	9.95	10	97%	100%	2.4%	
trans-1,3-Dichloropropene	10.4	10.7	10	104%	107%	2.8%	
1,1,2-Trichloroethane	10.4	10.7	10	104%	107%	2.8%	
Toluene	10.3	10.6	10	103%	106%	2.9%	
2-Hexanone	9.18	10.1	10	92%	101%	9.5%	
Dibromochloromethane	10.5	10.8	10	105%	108%	2.8%	
1,2-dibromoethane (EDB)	10.5	10.7	10	105%	107%	1.9%	
Tetrachloroethene	10.6	11	10	106%	110%	3.7%	
Chlorobenzene	10.3	10.7	10	103%	107%	3.8%	
Ethylbenzene	9.88	10	10	99%	100%	1.2%	
m,p-Xylene	19.7	18.2	20	99%	91%	7.9%	
Bromoform	10.5	10.8	10	105%	108%	2.8%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	9.64	9.99	10	96%	100%	3.6%	
1,1,2,2-Tetrachloroethane	10.3	10.6	10	103%	106%	2.9%	
o-Xylene	10.5	10.7	10	105%	107%	1.9%	
4-Ethyltoluene	9.89	10.1	10	99%	101%	2.1%	
1,3,5-Trimethylbenzene	10.2	10.4	10	102%	104%	1.9%	
1,2,4-Trimethylbenzene	10.5	10.7	10	105%	107%	1.9%	
1,3-Dichlorobenzene	10.6	11.1	10	106%	111%	4.6%	
Benzyl Chloride	10.3	10.6	10	103%	106%	2.9%	
1,4-Dichlorobenzene	11	11.3	10	110%	113%	2.7%	
1,2-Dichlorobenzene	10.2	10.4	10	102%	104%	1.9%	
1,2,4-Trichlorobenzene	10.2	10.6	10	102%	106%	3.8%	
Hexachloro-1,3-butadiene	10.7	10.2	10	107%	102%	4.8%	
4-bromofluorobenzene (surrogate)	100%	101%					
Analysis Date/Time:	6-16-16/09:14	6-16-16/09:56					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	Reported value is from a 10x dilution. TJG 6-24-16
3	Reported value is from a 200x dilution. TJG 6-24-16

EnvisionAir Proj#: 2016-379 Page 1 of 1 BJK

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: EnviroForensics	P.O. Number: 2016512
Report Address: N16 W23390 Stone Ridge Dr Waukesha WI 53188	Project Name or Number: 6165 Martino's - 41st
Report To: B. Kapper / K. Heimstead	Sampled by: K. Heimstead
Phone: 317-972-7870	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List

ENVISIONAIR

Sampling Type:
Soil-Gas: ☐
Sub-Slab: ☒
Indoor-Air: ☐

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Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-4017-SSV-1	1LC	6-9-16	1055	6-9-16	1100	x				518	-	-29	-2	-2	16-1310
6165-4017-SSV-2	1LC	6-9-16	1115	6-9-16	1120	x				83679	-	-28	-2	-2	16-1311

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	6-13-16	10 AM	FedEx	6-13-16	
			Stan Hunnicutt	6/14/16	0915

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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

June 24, 2016

EnvisionAir Project Number: 2016-378
Client Project Name: 6165 / Martino's 41st

Dear Mr. Kappen,

Please find the attached analytical report for the samples received June 14, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-378

Sample Summary

Canister Pressure / Vacuum

Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
16-1308	6165-4003-SSV-1	A	6/9/16		6/9/16		6/14/16	9:15	-29	-2	-2
16-1309	6165-4003-SSV-2	A	6/9/16		6/9/16		6/14/16	9:15	-28	-2	-2

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-378

Analytical Method: TO-15
Analytical Batch: 061516AIR

Client Sample ID: 6165-4003-SSV-1
Envision Sample Number: 16-1308
Sample Matrix: AIR

Sample Collection START Date/Time: 6/9/16
Sample Collection END Date/Time: 6/9/16
Sample Received Date/Time: 6/14/16 9:15

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	< 49.2	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	< 49.2	49.2	2
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	**25.2**	16.0	2
Benzyl Chloride	< 4.14	4.14	1,2
Bromodichloromethane	< 5.36	5.36	1,2
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	< 86.8	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	< 4670	4670	2
m,p-Xylene	< 434	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	< 4100	4100	2
N-Hexane	< 1760	1760	2
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	**417**	31.9	2
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichloroethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	6-16-16/16:02		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S 41ST

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-378

Analytical Method: TO-15
Analytical Batch: 061516AIR

Client Sample ID: 6165-4003-SSV-2
Envision Sample Number: 16-1309
Sample Matrix: AIR

Sample Collection START Date/Time: 6/9/16
Sample Collection END Date/Time: 6/9/16
Sample Received Date/Time: 6/14/16 9:15

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	2
4-Methyl-2-pentanone (MIBK)	< 20500	20500	2
1,1,1-Trichloroethane	< 5460	5460	2
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1,2
1,1,2-Trichloroethane	< 2.10	2.10	1,2
1,1-Dichloroethane	< 40.5	40.5	2
1,1-Dichloroethene	< 1980	1980	2
1,2,4-Trichlorobenzene	< 7.42	7.42	2
1,2,4-Trimethylbenzene	**227**	49.2	2
1,2-dibromoethane (EDB)	< 0.32	0.32	1,2
1,2-Dichlorobenzene	< 601	601	2
1,2-Dichloroethane	< 4.05	4.05	2
1,2-Dichloropropane	< 4.62	4.62	2
1,3,5-Trimethylbenzene	< 49.2	49.2	2
1,3-Butadiene	< 2.21	2.21	2
1,3-Dichlorobenzene	< 601	601	2
1,4-Dichlorobenzene	< 6.01	6.01	2
1,4-Dioxane	< 18.0	18.0	2
2-Butanone (MEK)	< 29500	29500	2
2-Hexanone	< 205	205	2
Acetone	< 23800	23800	2
Benzene	**88.8**	16.0	2
Benzyl Chloride	< 4.14	4.14	1,2
Bromodichloromethane	< 5.36	5.36	1,2
Bromoform	< 103	103	2
Bromomethane	< 38.8	38.8	2
Carbon Disulfide	< 3110	3110	2
Carbon Tetrachloride	< 6.29	6.29	2
Chlorobenzene	< 230	230	2
Chloroethane	< 132	132	2

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	2
Chloromethane	< 206	206	2
cis-1,2-Dichloroethene	< 198	198	2
cis-1,3-Dichloropropene	< 45.4	45.4	2
Cyclohexane	< 55100	55100	2
Dibromochloromethane	< 8.52	8.52	2
Dichlorodifluoromethane	< 495	495	2
Ethyl Acetate	< 18000	18000	2
Ethylbenzene	**101**	86.8	2
Hexachloro-1,3-butadiene	< 10.7	10.7	2
Isooctane	< 4670	4670	2
m,p-Xylene	**649**	434	2
Methylene Chloride	< 417	417	2
Methyl-tert-butyl ether	< 361	361	2
N-Heptane	< 4100	4100	2
N-Hexane	< 1760	1760	2
o-Xylene	< 434	434	2
Propylene	< 1720	1720	2
Styrene	< 4260	4260	2
Tetrachloroethene	< 31.9	31.9	2
Tetrahydrofuran	< 2950	2950	2
Toluene	< 37700	37700	2
trans-1,2-Dichloroethene	< 396	396	2
trans-1,3-Dichloropropene	< 45.4	45.4	2
Trichloroethene	< 10.7	10.7	2
Trichlorofluoromethane	< 5620	5620	2
Vinyl Acetate	< 1760	1760	2
Vinyl Bromide	< 4.37	4.37	2
Vinyl Chloride	< 12.8	12.8	2
4-bromofluorobenzene (surrogate)	104%		
Analysis Date/Time:	6-16-16/16:38		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 061516AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichloroethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	6-16-16/10:32		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	9.27	9.51	10	93%	95%	2.6%	
Dichlorodifluoromethane	8.76	8.55	10	88%	86%	2.4%	
Chloromethane	9.09	9.86	10	91%	99%	8.1%	
Vinyl Chloride	8.55	8.85	10	86%	89%	3.4%	
1,3-Butadiene	8.8	8.24	10	88%	82%	6.6%	
Bromomethane	9.12	9.55	10	91%	96%	4.6%	
Chloroethane	8.45	8.94	10	85%	89%	5.6%	
Vinyl Bromide	8.87	9.52	10	89%	95%	7.1%	
Trichlorofluoromethane	9.78	10.5	10	98%	105%	7.1%	
Acetone	9.75	8.39	10	98%	84%	15.0%	
1,1-Dichloroethene	9.66	10.5	10	97%	105%	8.3%	
Methylene Chloride	8.92	8.48	10	89%	85%	5.1%	
Carbon Disulfide	9.79	10.4	10	98%	104%	6.0%	
trans-1,2-Dichloroethene	9.94	10.7	10	99%	107%	7.4%	
Methyl-tert-butyl ether	9.92	10.9	10	99%	109%	9.4%	
1,1-Dichloroethane	9.5	10.3	10	95%	103%	8.1%	
Vinyl Acetate	8.93	9.35	10	89%	94%	4.6%	
N-Hexane	9.63	10.3	10	96%	103%	6.7%	
2-Butanone (MEK)	9.4	9.97	10	94%	100%	5.9%	
cis-1,2-Dichloroethene	9.67	10.4	10	97%	104%	7.3%	
Ethyl Acetate	9.1	9.73	10	91%	97%	6.7%	
Chloroform	9.61	10.3	10	96%	103%	6.9%	
Tetrahydrofuran	10.2	10.5	10	102%	105%	2.9%	
1,2-Dichloroethane	9.5	9.81	10	95%	98%	3.2%	
1,1,1-Trichloroethane	10.1	10.3	10	101%	103%	2.0%	
Carbon Tetrachloride	9.83	10.2	10	98%	102%	3.7%	
Benzene	10.1	10.5	10	101%	105%	3.9%	
Cyclohexane	8.51	8.72	10	85%	87%	2.4%	
1,2-Dichloropropane	10.5	10.9	10	105%	109%	3.7%	
Trichloroethene	10.1	10.5	10	101%	105%	3.9%	
Bromodichloromethane	9.69	10.1	10	97%	101%	4.1%	
1,4-Dioxane	8.85	9.13	10	89%	91%	3.1%	
Isooctane	9.56	9.77	10	96%	98%	2.2%	
N-Heptane	9.78	10.2	10	98%	102%	4.2%	
cis-1,3-Dichloropropene	10.4	10.7	10	104%	107%	2.8%	
4-Methyl-2-pentanone (MIBK)	9.71	9.95	10	97%	100%	2.4%	
trans-1,3-Dichloropropene	10.4	10.7	10	104%	107%	2.8%	
1,1,2-Trichloroethane	10.4	10.7	10	104%	107%	2.8%	
Toluene	10.3	10.6	10	103%	106%	2.9%	
2-Hexanone	9.18	10.1	10	92%	101%	9.5%	
Dibromochloromethane	10.5	10.8	10	105%	108%	2.8%	
1,2-dibromoethane (EDB)	10.5	10.7	10	105%	107%	1.9%	
Tetrachloroethene	10.6	11	10	106%	110%	3.7%	
Chlorobenzene	10.3	10.7	10	103%	107%	3.8%	
Ethylbenzene	9.88	10	10	99%	100%	1.2%	
m,p-Xylene	19.7	18.2	20	99%	91%	7.9%	
Bromoform	10.5	10.8	10	105%	108%	2.8%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	9.64	9.99	10	96%	100%	3.6%	
1,1,2,2-Tetrachloroethane	10.3	10.6	10	103%	106%	2.9%	
o-Xylene	10.5	10.7	10	105%	107%	1.9%	
4-Ethyltoluene	9.89	10.1	10	99%	101%	2.1%	
1,3,5-Trimethylbenzene	10.2	10.4	10	102%	104%	1.9%	
1,2,4-Trimethylbenzene	10.5	10.7	10	105%	107%	1.9%	
1,3-Dichlorobenzene	10.6	11.1	10	106%	111%	4.6%	
Benzyl Chloride	10.3	10.6	10	103%	106%	2.9%	
1,4-Dichlorobenzene	11	11.3	10	110%	113%	2.7%	
1,2-Dichlorobenzene	10.2	10.4	10	102%	104%	1.9%	
1,2,4-Trichlorobenzene	10.2	10.6	10	102%	106%	3.8%	
Hexachloro-1,3-butadiene	10.7	10.2	10	107%	102%	4.8%	
4-bromofluorobenzene (surrogate)	100%	101%					
Analysis Date/Time:	6-16-16/09:14	6-16-16/09:56					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	Reported value is from a 10x dilution. TJG 6-24-16

EnvisionAir Proj#: 2016-378 Page 1 of 1 BJK

CHAIN OF CUSTODY RECORD

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Client: EnviroForensics	P.O. Number: 2016572
Report Address: N16 W23390 Stone Ridge Dr Waukesha WI 53188	Project Name or Number: 6165 Martino's 41st
Report To: B. Kapper / K. Heimstead	Sampled by: K. Heimstead
Phone: 317-972-7870	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address:	Reporting Units needed: (circle) µg/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List | TO-15 Short List

ENVISIONAIR

Sampling Type:
Soil-Gas: ☐
Sub-Slab: ☒
Indoor-Air: ☐

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Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)	TO-15 Full List	TO-15 Short List			Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
						Canister Pressure / Vacuum									
6165-4003-SSV-1	1LC	6-9-16		6-9-16		X				8384?	-	-29	-2	-2	16-1308
6165-4003-SSV-2	1LC	6-9-16		6-9-16		X				2539	-	-28	-2	-2	16-1309

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6-13-16	10AM	FedEx	6-13-16	
			[signature]	6/14/16	0915

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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

August 23, 2016

EnvisionAir Project Number: 2016-496
Client Project Name: 6165 / Martino's Master Drycleaners

Dear Mr. Kappen,

Please find the attached analytical report for the samples received August 12, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S MASTER DRYCLEANERS

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-496

Sample Summary

Canister Pressure / Vacuum

Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
16-1769	6165-7507-IA-1	A	8/3/16	9:55	8/3/16	17:30	8/12/16	10:25	-29	-4	-4
16-1770	6165-7507-OA-1	A	8/3/16	10:05	8/3/16	17:35	8/12/16	10:25	-29	-5	-5
16-1771	6165-7507-SSV-1	A	8/4/16	13:20	8/4/16	13:25	8/12/16	10:25	-29	-2	-2
16-1772	6165-7507-SSV-2	A	8/4/16	13:40	8/4/16	13:45	8/12/16	10:25	-29	-2	-2

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S MASTER DRYCLEANERS

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-496

Analytical Method: TO-15
Analytical Batch: 081616AIR

Client Sample ID: 6165-7507-IA-1
Envision Sample Number: 16-1769
Sample Matrix: AIR

Sample Collection START Date/Time: 8/3/16 9:55
Sample Collection END Date/Time: 8/3/16 17:30
Sample Received Date/Time: 8/12/16 10:25

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,2,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	**92.3**	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichloroethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	108%		
Analysis Date/Time:	8-17-16/01:05		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S MASTER DRYCLEANERS

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-496

Analytical Method: TO-15
Analytical Batch: 081616AIR

Client Sample ID: 6165-7507-OA-1
Sample Collection START Date/Time: 8/3/16 10:05
Sample Collection END Date/Time: 8/3/16 17:35
Envision Sample Number: 16-1770
Sample Received Date/Time: 8/12/16 10:25
Sample Matrix: AIR

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 492	492	
4-Methyl-2-pentanone (MIBK)	< 2050	2050	
1,1,1-Trichloroethane	< 546	546	
1,1,2,2-Tetrachloroethane	< 0.34	0.34	1
1,1,2-Trichloroethane	< 0.21	0.21	1
1,1-Dichloroethane	< 4.05	4.05	
1,1-Dichloroethene	< 198	198	
1,2,4-Trichlorobenzene	< 0.74	0.74	
1,2,4-Trimethylbenzene	< 4.92	4.92	
1,2-dibromoethane (EDB)	< 0.03	0.03	1
1,2-Dichlorobenzene	< 60.1	60.1	
1,2-Dichloroethane	< 0.40	0.40	
1,2-Dichloropropane	< 0.46	0.46	
1,3,5-Trimethylbenzene	< 4.92	4.92	
1,3-Butadiene	< 0.22	0.22	
1,3-Dichlorobenzene	< 60.1	60.1	
1,4-Dichlorobenzene	< 0.60	0.60	
1,4-Dioxane	< 1.80	1.80	
2-Butanone (MEK)	< 2950	2950	
2-Hexanone	< 20.5	20.5	
Acetone	< 2380	2380	
Benzene	< 1.60	1.60	
Benzyl Chloride	< 0.41	0.41	1
Bromodichloromethane	< 0.54	0.54	1
Bromoform	< 10.3	10.3	
Bromomethane	< 3.88	3.88	
Carbon Disulfide	< 311	311	
Carbon Tetrachloride	< 0.63	0.63	
Chlorobenzene	< 23.0	23.0	
Chloroethane	< 13.2	13.2	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 0.83	0.83	
Chloromethane	< 20.6	20.6	
cis-1,2-Dichloroethene	< 19.8	19.8	
cis-1,3-Dichloropropene	< 4.54	4.54	
Cyclohexane	< 5510	5510	
Dibromochloromethane	< 0.85	0.85	
Dichlorodifluoromethane	< 49.5	49.5	
Ethyl Acetate	< 1800	1800	
Ethylbenzene	< 8.68	8.68	
Hexachloro-1,3-butadiene	< 1.07	1.07	
Isooctane	< 467	467	
m,p-Xylene	< 43.4	43.4	
Methylene Chloride	< 41.7	41.7	
Methyl-tert-butyl ether	< 36.1	36.1	
N-Heptane	< 410	410	
N-Hexane	< 176	176	
o-Xylene	< 43.4	43.4	
Propylene	< 172	172	
Styrene	< 426	426	
Tetrachloroethene	< 3.19	3.19	
Tetrahydrofuran	< 295	295	
Toluene	< 3770	3770	
trans-1,2-Dichloroethene	< 39.6	39.6	
trans-1,3-Dichloropropene	< 4.54	4.54	
Trichloroethene	< 1.07	1.07	
Trichlorofluoromethane	< 562	562	
Vinyl Acetate	< 176	176	
Vinyl Bromide	< 0.44	0.44	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surrogate)	110%		
Analysis Date/Time:	8-16-16/23:49		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S MASTER DRYCLEANERS

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-496

Analytical Method: TO-15
Analytical Batch: 081816AIR

Client Sample ID: 6165-7507-SSV-1
Envision Sample Number: 16-1771
Sample Matrix: AIR

Sample Collection START Date/Time: 8/4/16 13:20
Sample Collection END Date/Time: 8/4/16 13:25
Sample Received Date/Time: 8/12/16 10:25

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 18000	18000	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	**10,200**	255	2
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	**83.3**	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	8-19-16/10:20		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6165 / MARTINO'S MASTER DRYCLEANERS

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-496

Analytical Method: TO-15
Analytical Batch: 081816AIR

Client Sample ID: 6165-7507-SSV-2
Envision Sample Number: 16-1772
Sample Matrix: AIR

Sample Collection START Date/Time: 8/4/16 13:40
Sample Collection END Date/Time: 8/4/16 13:45
Sample Received Date/Time: 8/12/16 10:25

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 18000	18000	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	**344**	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	8-19-16/10:57		
Analyst Initials	tjg		

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TO-15 Quality Control Data

EnvisionAir Batch Number: 081616AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichloroethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	8-16-16/22:39		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	9.74	10.7	10	97%	107%	9.4%	
Dichlorodifluoromethane	8.53	8.66	10	85%	87%	1.5%	
Chloromethane	9.8	10.8	10	98%	108%	9.7%	
Vinyl Chloride	10.2	11.2	10	102%	112%	9.3%	
1,3-Butadiene	10.1	11.1	10	101%	111%	9.4%	
Bromomethane	10.1	10.8	10	101%	108%	6.7%	
Chloroethane	10.2	10.8	10	102%	108%	5.7%	
Vinyl Bromide	10.1	10.8	10	101%	108%	6.7%	
Trichlorofluoromethane	8.47	11.3	10	85%	113%	28.6%	3
Acetone	8.72	11.7	10	87%	117%	29.2%	3
1,1-Dichloroethene	9.46	11.5	10	95%	115%	19.5%	
Methylene Chloride	8.59	10.8	10	86%	108%	22.8%	3
Carbon Disulfide	9.21	11.4	10	92%	114%	21.3%	3
trans-1,2-Dichloroethene	9.4	10.8	10	94%	108%	13.9%	
Methyl-tert-butyl ether	9.45	11	10	95%	110%	15.2%	
1,1-Dichloroethane	9.26	10.8	10	93%	108%	15.4%	
Vinyl Acetate	8.87	10.5	10	89%	105%	16.8%	
N-Hexane	8.97	10.6	10	90%	106%	16.7%	
2-Butanone (MEK)	9.35	11.3	10	94%	113%	18.9%	
cis-1,2-Dichloroethene	9.51	11.1	10	95%	111%	15.4%	
Ethyl Acetate	8.96	10.6	10	90%	106%	16.8%	
Chloroform	9.34	10.6	10	93%	106%	12.6%	
Tetrahydrofuran	10.3	11.2	10	103%	112%	8.4%	
1,2-Dichloroethane	10.2	11.5	10	102%	115%	12.0%	
1,1,1-Trichloroethane	10.1	11.5	10	101%	115%	13.0%	
Carbon Tetrachloride	9.99	11.3	10	100%	113%	12.3%	
Benzene	9.58	11.4	10	96%	114%	17.3%	
Cyclohexane	8.54	10.4	10	85%	104%	19.6%	
1,2-Dichloropropane	9.85	11.6	10	99%	116%	16.3%	
Trichloroethene	9.79	11	10	98%	110%	11.6%	
Bromodichloromethane	10.1	11.3	10	101%	113%	11.2%	
1,4-Dioxane	9.24	10.5	10	92%	105%	12.8%	
Isooctane	8.92	10.1	10	89%	101%	12.4%	
N-Heptane	9.89	11.3	10	99%	113%	13.3%	
cis-1,3-Dichloropropene	10.2	11.5	10	102%	115%	12.0%	
4-Methyl-2-pentanone (MIBK)	10.2	11.6	10	102%	116%	12.8%	
trans-1,3-Dichloropropene	10.6	11.6	10	106%	116%	9.0%	
1,1,2-Trichloroethane	9.93	11.2	10	99%	112%	12.0%	
Toluene	9.36	10.7	10	94%	107%	13.4%	
2-Hexanone	10.5	11.6	10	105%	116%	10.0%	
Dibromochloromethane	9.17	10.4	10	92%	104%	12.6%	
1,2-dibromoethane (EDB)	8.79	10.1	10	88%	101%	13.9%	
Tetrachloroethene	9.04	10.3	10	90%	103%	13.0%	
Chlorobenzene	8.64	9.96	10	86%	100%	14.2%	
Ethylbenzene	8.2	9.35	10	82%	94%	13.1%	
m,p-Xylene	17.2	19.5	20	86%	98%	12.5%	
Bromoform	9.43	10.7	10	94%	107%	12.6%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	8.98	10.3	10	90%	103%	13.7%	
1,1,2,2-Tetrachloroethane	8.08	9.16	10	81%	92%	12.5%	
o-Xylene	8.58	9.79	10	86%	98%	13.2%	
4-Ethyltoluene	8.48	9.73	10	85%	97%	13.7%	
1,3,5-Trimethylbenzene	9.4	9.03	10	94%	90%	4.0%	
1,2,4-Trimethylbenzene	8.31	9.48	10	83%	95%	13.2%	
1,3-Dichlorobenzene	9	10.3	10	90%	103%	13.5%	
Benzyl Chloride	10.9	11.3	10	109%	113%	3.6%	
1,4-Dichlorobenzene	9.41	10.6	10	94%	106%	11.9%	
1,2-Dichlorobenzene	8.75	9.86	10	88%	99%	11.9%	
1,2,4-Trichlorobenzene	11.2	10.8	10	112%	108%	3.6%	
Hexachloro-1,3-butadiene	8.97	9.87	10	90%	99%	9.6%	
4-bromofluorobenzene (surrogate)	95%	102%					
Analysis Date/Time:	8-16-16/19:55	8-16-16/22:05					
Analyst Initials	tjg	tjg					

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 081816AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichloroethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	8-18-16/17:55		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	10.2	10.7	10	102%	107%	4.8%	
Dichlorodifluoromethane	9.02	8.97	10	90%	90%	0.6%	
Chloromethane	10.2	10.3	10	102%	103%	1.0%	
Vinyl Chloride	10.7	11.2	10	107%	112%	4.6%	
1,3-Butadiene	10.6	10.7	10	106%	107%	0.9%	
Bromomethane	10.5	10.8	10	105%	108%	2.8%	
Chloroethane	10.4	10.4	10	104%	104%	0.0%	
Vinyl Bromide	10.6	10.8	10	106%	108%	1.9%	
Trichlorofluoromethane	11.1	11.5	10	111%	115%	3.5%	
Acetone	8.92	11	10	89%	110%	20.9%	
1,1-Dichloroethene	11.3	11.6	10	113%	116%	2.6%	
Methylene Chloride	10.5	10.8	10	105%	108%	2.8%	
Carbon Disulfide	11	11.3	10	110%	113%	2.7%	
trans-1,2-Dichloroethene	10.5	10.7	10	105%	107%	1.9%	
Methyl-tert-butyl ether	10.1	10.3	10	101%	103%	2.0%	
1,1-Dichloroethane	10.5	10.8	10	105%	108%	2.8%	
Vinyl Acetate	10	10.3	10	100%	103%	3.0%	
N-Hexane	10.2	10.6	10	102%	106%	3.8%	
2-Butanone (MEK)	10.6	10.9	10	106%	109%	2.8%	
cis-1,2-Dichloroethene	10.7	10.9	10	107%	109%	1.9%	
Ethyl Acetate	10.1	10.3	10	101%	103%	2.0%	
Chloroform	10.3	10.6	10	103%	106%	2.9%	
Tetrahydrofuran	9.52	10.2	10	95%	102%	6.9%	
1,2-Dichloroethane	10.4	10.6	10	104%	106%	1.9%	
1,1,1-Trichloroethane	10.5	10.7	10	105%	107%	1.9%	
Carbon Tetrachloride	10.2	10.6	10	102%	106%	3.8%	
Benzene	10.3	10.6	10	103%	106%	2.9%	
Cyclohexane	9.2	9.52	10	92%	95%	3.4%	
1,2-Dichloropropane	10.2	10.6	10	102%	106%	3.8%	
Trichloroethene	9.87	10.3	10	99%	103%	4.3%	
Bromodichloromethane	10.4	10.6	10	104%	106%	1.9%	
1,4-Dioxane	9.68	9.92	10	97%	99%	2.4%	
Isooctane	9.17	9.56	10	92%	96%	4.2%	
N-Heptane	9.88	10.4	10	99%	104%	5.1%	
cis-1,3-Dichloropropene	10.2	10.4	10	102%	104%	1.9%	
4-Methyl-2-pentanone (MIBK)	9.38	9.81	10	94%	98%	4.5%	
trans-1,3-Dichloropropene	10.1	10.4	10	101%	104%	2.9%	
1,1,2-Trichloroethane	10.1	10.4	10	101%	104%	2.9%	
Toluene	9.84	10.1	10	98%	101%	2.6%	
2-Hexanone	9.22	9.57	10	92%	96%	3.7%	
Dibromochloromethane	10.1	10.2	10	101%	102%	1.0%	
1,2-dibromoethane (EDB)	9.65	9.71	10	97%	97%	0.6%	
Tetrachloroethene	9.87	9.91	10	99%	99%	0.4%	
Chlorobenzene	9.46	9.58	10	95%	96%	1.3%	
Ethylbenzene	9.28	9.33	10	93%	93%	0.5%	
m,p-Xylene	18.8	19.1	20	94%	96%	1.6%	
Bromoform	10.4	10.4	10	104%	104%	0.0%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	9.6	9.88	10	96%	99%	2.9%	
1,1,2,2-Tetrachloroethane	8.83	9.07	10	88%	91%	2.7%	
o-Xylene	9.35	9.57	10	94%	96%	2.3%	
4-Ethyltoluene	9.54	9.68	10	95%	97%	1.5%	
1,3,5-Trimethylbenzene	8.77	8.98	10	88%	90%	2.4%	
1,2,4-Trimethylbenzene	9.19	9.4	10	92%	94%	2.3%	
1,3-Dichlorobenzene	9.68	9.69	10	97%	97%	0.1%	
Benzyl Chloride	10.6	10.8	10	106%	108%	1.9%	
1,4-Dichlorobenzene	9.82	10.1	10	98%	101%	2.8%	
1,2-Dichlorobenzene	9.54	9.66	10	95%	97%	1.3%	
1,2,4-Trichlorobenzene	10.4	10.6	10	104%	106%	1.9%	
Hexachloro-1,3-butadiene	10.5	10.4	10	105%	104%	1.0%	
4-bromofluorobenzene (surrogate)	94%	96%					
Analysis Date/Time:	8-18-16/16:39	8-18-16/17:20					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	Reported value is from an 80x dilution. TJG 8-22-17
3	RPD is biased high, but recoveries are within control. TJG 8-22-16

EnvisionAir Proj#: 2016-496 Page 1 of 1 BJK

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: EnviroForensics	P.O. Number: 2016814
Report Address: N16 W23390 Stone Ridge Dr. Waukesha WI 53188	Project Name or Number: 6165 Martinez Master Dry Cleaners
Report To: B. Kruppa / K. Hemstead	Sampled by: K. Hemstead
Phone: 317-972-7870	QA/QC Required: (circle if applicable) Level III (Level IV)
Invoice Address:	Reporting Units needed: (circle) (ug/m³) mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List | TO-15 Short List

ENVISIONAIR

Sampling Type:
Soil-Gas: ☐
Sub-Slab: ☒
Indoor-Air: ☒

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Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-7507-IA-1	6LC	8/3/16	0955	8/3/16	1730	X				14887	05723	-29	-4	-4	16-1769
6165-7507-OA-1	6LC	8/3/16	1005	8/3/16	1735	X				20487	02222	-29	-5	-5	16-1770
6165-7507-SSV-1	1LC	8/4/16	13:20	8/4/16	1325	X				83734	-	-29	-2	-2	16-1771
6165-7507-SSV-2	1LC	8/4/16	1340	8/4/16	1345	X				2532	-	-29	-2	-2	16-1772

Comments: Level IV for 6LC only

Relinquished by:	Date	Time	Received by:	Date	Time
		FedEx		8/12/16	1025

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Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

November 4, 2016

EnvisionAir Project Number: 2016-640
Client Project Name: 6165

Dear Mr. Kappen,

Please find the attached analytical report for the samples received October 24, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC

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Client Name: ENVIROFORENSICS

Project ID: 6165

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-640

Sample Summary

										Canister Pressure / Vacuum		
Laboratory Sample Number:	**Sample Description:**	**Matrix:**	**START Date Collected:**	**START Time Collected:**	**End Date Collected:**	**End Time Collected:**	**Date Received:**	**Time Received**	**Initial Field (in. Hg)**	**Final Field (in. Hg)**	**Lab Received (in. Hg)**
16-2424	6165-4003-SSV-1	A	10/20/16	8:33	10/20/16	8:38	10/24/16	9:45	-29.5	-4	-4
16-2425	6165-4003-SSV-2	A	10/20/16	8:51	10/20/16	8:55	10/24/16	9:45	-26.5	-4	-4

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Client Name: ENVIROFORENSICS

Project ID: 6165

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-640

Analytical Method: TO-15
Analytical Batch: 102416CAIR

Client Sample ID: 6165-4003-SSV-1
Envision Sample Number: 16-2424
Sample Matrix: AIR

Sample Collection START Date/Time: 10/20/16 8:33
Sample Collection END Date/Time: 10/20/16 8:38
Sample Received Date/Time: 10/24/16 9:45

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 18000	18000	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	10-25-16/09:44		
Analyst Initials	tjg		

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Client Name: ENVIROFORENSICS

Project ID: 6165

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2016-640

Analytical Method: TO-15
Analytical Batch: 102416CAIR

Client Sample ID: 6165-4003-SSV-2
Envision Sample Number: 16-2425
Sample Matrix: AIR

Sample Collection START Date/Time: 10/20/16 8:51
Sample Collection END Date/Time: 10/20/16 8:55
Sample Received Date/Time: 10/24/16 9:45

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 18000	18000	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	10-25-16/10:21		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 102516AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 500	500	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Analytical Report

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichloroethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	10-24-16/22:30		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	8.49	9.05	10	85%	91%	6.4%	
Dichlorodifluoromethane	8.2	8.37	10	82%	84%	2.1%	
Chloromethane	8.62	9.24	10	86%	92%	6.9%	
Vinyl Chloride	9.4	10.3	10	94%	103%	9.1%	
1,3-Butadiene	9.75	10.4	10	98%	104%	6.5%	
Bromomethane	8.26	9.28	10	83%	93%	11.6%	
Chloroethane	8.86	9.71	10	89%	97%	9.2%	
Vinyl Bromide	8.52	10.5	10	85%	105%	20.8%	2
Trichlorofluoromethane	9.41	11.2	10	94%	112%	17.4%	
Acetone	8.32	9.28	10	83%	93%	10.9%	
1,1-Dichloroethene	11.2	10.7	10	112%	107%	4.6%	
Methylene Chloride	10.9	11.3	10	109%	113%	3.6%	
Carbon Disulfide	11.5	11.6	10	115%	116%	0.9%	
trans-1,2-Dichloroethene	11.1	9.42	10	111%	94%	16.4%	
Methyl-tert-butyl ether	10.2	10.7	10	102%	107%	4.8%	
1,1-Dichloroethane	11.5	10.3	10	115%	103%	11.0%	
Vinyl Acetate	9.73	10.5	10	97%	105%	7.6%	
N-Hexane	9.5	10.3	10	95%	103%	8.1%	
2-Butanone (MEK)	8.92	9.56	10	89%	96%	6.9%	
cis-1,2-Dichloroethene	9.81	10.4	10	98%	104%	5.8%	
Ethyl Acetate	9.23	9.94	10	92%	99%	7.4%	
Chloroform	9.45	10.2	10	95%	102%	7.6%	
Tetrahydrofuran	9.18	10.1	10	92%	101%	9.5%	
1,2-Dichloroethane	8.91	9.94	10	89%	99%	10.9%	
1,1,1-Trichloroethane	8.94	9.98	10	89%	100%	11.0%	
Carbon Tetrachloride	9.07	10	10	91%	100%	9.8%	
Benzene	8.88	9.9	10	89%	99%	10.9%	
Cyclohexane	9.92	11	10	99%	110%	10.3%	
1,2-Dichloropropane	8.95	10.1	10	90%	101%	12.1%	
Trichloroethene	9.15	10	10	92%	100%	8.9%	
Bromodichloromethane	8.76	9.68	10	88%	97%	10.0%	
1,4-Dioxane	9.98	9.04	10	100%	90%	9.9%	
Isooctane	8.77	9.55	10	88%	96%	8.5%	
N-Heptane	8.91	10.1	10	89%	101%	12.5%	
cis-1,3-Dichloropropene	9.02	10.1	10	90%	101%	11.3%	
4-Methyl-2-pentanone (MIBK)	8.87	9.96	10	89%	100%	11.6%	
trans-1,3-Dichloropropene	9.04	10	10	90%	100%	10.1%	
1,1,2-Trichloroethane	9.24	10.1	10	92%	101%	8.9%	
Toluene	8.92	10	10	89%	100%	11.4%	
2-Hexanone	9.21	10.2	10	92%	102%	10.2%	
Dibromochloromethane	9.42	9.71	10	94%	97%	3.0%	
1,2-dibromoethane (EDB)	9.2	9.59	10	92%	96%	4.2%	
Tetrachloroethene	9.56	10	10	96%	100%	4.5%	
Chlorobenzene	9.31	9.78	10	93%	98%	4.9%	
Ethylbenzene	9.23	9.66	10	92%	97%	4.6%	
m,p-Xylene	18.5	18.3	20	93%	92%	1.1%	
Bromoform	9.62	10	10	96%	100%	3.9%	

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1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	9.95	10.5	10	100%	105%	5.4%	
1,1,2,2-Tetrachloroethane	8.94	9.53	10	89%	95%	6.4%	
o-Xylene	10.6	10.5	10	106%	105%	0.9%	
4-Ethyltoluene	9.85	10.4	10	99%	104%	5.4%	
1,3,5-Trimethylbenzene	9.75	10.2	10	98%	102%	4.5%	
1,2,4-Trimethylbenzene	9.7	10.3	10	97%	103%	6.0%	
1,3-Dichlorobenzene	11.4	11.3	10	114%	113%	0.9%	
Benzyl Chloride	9.38	9.94	10	94%	99%	5.8%	
1,4-Dichlorobenzene	10.7	11.1	10	107%	111%	3.7%	
1,2-Dichlorobenzene	10.2	10.7	10	102%	107%	4.8%	
1,2,4-Trichlorobenzene	11.1	11.7	10	111%	117%	5.3%	
Hexachloro-1,3-butadiene	9.22	9.51	10	92%	95%	3.1%	
4-bromofluorobenzene (surrogate)	103%	95%					
Analysis Date/Time:	10-24-16/21:12	10-24-16/21:53					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	RPD is biased high but recoveries are within control.

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CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: NFO	P.O. Number: 20169182
Report Address:	Project Name or Number: 6165
Report To: B. Kapper/G. Schacht	Sampled by: G. Schacht
Phone: 414-326-4412	QA/QC Required: (circle if applicable) **Level III** **Level IV**
Invoice Address: N16 W23390 Stone Ridge Dr Waukesha WI	Reporting Units needed: (circle) **ug/m³** **mg/m³** **PPBV** **PPMV**
Desired TAT: (Please Circle One) **1 day** **2 days** **3 days** **Std (5 bus. days)**	Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List | TO-15 Short List

Sampling Type:
Soil-Gas: ☒
Sub-Slab: ☒
Indoor-Air: ☐

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Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)	TO-15 Full List	TO-15 Short List			Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6165-4003-SSV-1	1 LC	10-20-16	0833	10-20-16	0838	X				2227	—	-29.5	-4.0	-4	16-2424
6165-4003-SSV-2	1 LC	10-20-16	0851	10-20-16	0855	X				83836	—	-26.5	-4.0	-4	16-2425

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	10-20-16	10:30	[signature]	10/24/16	0845