



REC'D DEC 30 2014

December 22, 2014

REC'D DEC 30 2014

Erwin Schmidt
7939 Cooper Road
Kenosha, WI 53142

Subject: Environmental Investigation Sampling Results
BRRTS#: 02-30-552188

Dear Mr. Schmidt:

In accordance with the executed Agreement to Provide Access for Sampling Activities, and in accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, Environmental Forensic Investigations, Inc. (EnviroForensics) is providing the results of environmental samples collected from your property located at 7528 40th Avenue in Kenosha, Wisconsin on November 13th and 14th 2014. The sampling activities are part of an environmental investigation being performed for the Martino's Master Dry Cleaners facility located at 7513 41st Avenue in Kenosha, WI at the direction of the WDNR pursuant to the authority granted to it under State and Federal law. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

The Responsible Party is:

Martino's Master Drycleaners
7513 41st Avenue
Kenosha, WI
262-694-7545

Sampling Results

Two (2) sub-slab vapor samples designated 6165-7528-SS-1 and 6165-7528-SS-2 were collected from the basement of your building. Indoor air samples 6165-7528-IA-B, 6165-7528-IA-F1, and 6165-7528-IA-F2 were collected from the basement, first floor, and second floor, respectively. For quality control purposes a sample of outdoor air designated 6165-7528-OA was also collected. The sampling locations are depicted on the attached figure. The results of the vapor and air samples are summarized and compared to WDNR standards on the attached table. The laboratory report that relates to the vapor and air samples are also attached.

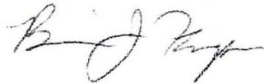
Document: 6165-0655
Environmental Forensic Investigations, Inc.
N16 W23390 Stone Ridge Dr, Suite G
Waukesha, WI 53188
Phone: 262-290-4001 • Fax 317-972-7875

As shown on the attached table, PCE or other compounds related to dry cleaning were not detected in any of the sub-slab vapor or indoor air samples collected from your building. Several chemicals unrelated to dry cleaning solvent were detected at concentrations above the residential vapor action levels established by WDNR for use in evaluating chemical concentrations at sites such as this. The chemicals, including benzene, ethylbenzene, 1,2,4-trimethylbenzene, and xylene, are related to fuel. These chemicals were not detected in the sub-slab vapor samples, indicating that vapor intrusion is not the source of chemicals detected in the indoor air. The source of these chemicals should be removed from the home to improve indoor air quality.

The WDNR requires that the above sampling protocol be repeated one more time to rule out a vapor risk to residential properties. We will contact you to schedule this final sampling event. We anticipate conducting the final sampling event during February or March of 2015. If you have any questions or concerns, please contact me at 414-326-4412 or by email at bkappen@enviroforensics.com. The WDNR project manager, Doug Cieslak, can be reached at 262-884-2344. We greatly appreciate your help and patience with this matter.

Sincerely,

Environmental Forensic Investigations, Inc.

Handwritten signature of Brian Kappen in black ink.

Brian Kappen, PG
Project Manager

Handwritten signature of Wayne Fassbender in black ink.

Wayne Fassbender, PG, PMP
Senior Project Manager

Copy: Doug Cieslak, Wisconsin Department of Natural Resources

Attachments: Sample Location Map
Results Summary Table
WDNR Fact Sheet - Understanding Chemical Vapor Intrusion Testing Results
Analytical Laboratory Report

VAPOR INTRUSION SAMPLE LOCATIONS
7528 40th Ave, Kenosha, Wisconsin



Summary of Vapor Intrusion Assessment Analytical Results
7528 40th Avenue
 Martino's 41st Avenue
 Kenosha, Wisconsin

| Sample Address | Sample Identification | Sample Location | Sample Date | Benzene | Chloromethane | Dichlorodifluoromethane | Ethylbenzene | Toluene | Trichlorofluoromethane | 1,2,4-Trimethylbenzene | Xylene |
|---------------------------------------|-----------------------|-----------------|-------------|-------------|---------------|-------------------------|--------------|---------------|------------------------|------------------------|--------------|
| INDOOR/ OUTDOOR AIR | | | | | | | | | | | |
| Residential Vapor Action Level | | | | 3.6 | 94 | 100 | 11 | 5,200 | 730 | 7.3 | 100 |
| 7528 40th Ave | 6165-7528-OA | Outdoor | 8/28/2014 | <0.64 | <1.0 | 0.44 | <0.87 | 0.24 | 0.21 | <0.98 | <0.87 |
| | 6165-7528-OA | Outdoor | 11/14/2014 | <1.60 | <20.6 | <49.5 | <8.86 | <3770 | <562 | <4.92 | <86.8 |
| | 6165-7528-IA-B | Basement | 8/28/2014 | <0.64 | <1.0 | 2.1 | 1.0 | 8.0 | 1.2 | 1.9 | 6.0 |
| | 6165-7528-IA-B | Basement | 11/14/2014 | 7.83 | <20.6 | <49.5 | 10.2 | <3770 | <562 | 11.9 | <86.8 |
| | 6165-7528-IA-F1 | First Floor | 8/28/2014 | <0.64 | 1.1 | 2.3 | <0.87 | 1.4 | 1.2 | <0.98 | 1.5 |
| | 6165-7528-IA-F1 | First Floor | 11/14/2014 | 7.38 | <20.6 | <49.5 | 115 | <3770 | <562 | 15.3 | 601 |
| | 6165-7528-IA-F2 | Second Floor | 8/28/2014 | <0.64 | <1.0 | 1.9 | <0.87 | 1.6 | <1.1 | <0.98 | 2.1 |
| | 6165-7528-IA-F2 | Second Floor | 11/14/2014 | 4.7 | <20.6 | <49.5 | 30.2 | <3770 | <562 | 8.95 | 118 |
| SUB-SLAB VAPOR | | | | | | | | | | | |
| Residential Vapor Action Level | | | | 36 | 940 | 1,000 | 110 | 52,000 | 7,300 | 73 | 1,000 |
| 7528 40th Ave | 6165-7528-SS-1 | Basement | 8/28/2014 | <6.4 | <10 | <9.9 | <8.7 | <7.5 | <11 | <9.8 | <8.7 |
| | 6165-7528-SS-1 | Basement | 11/14/2014 | <16.0 | <206 | <495 | <86.8 | <37700 | <5620 | <49.2 | <868 |
| | 6165-7528-SS-2 | Basement | 8/28/2014 | 7.2 | <10 | <9.9 | <8.7 | 12 | <11 | <9.8 | <8.7 |
| | 6165-7528-SS-2 | Basement | 11/14/2014 | <16.0 | <206 | <495 | <86.8 | <37700 | <5620 | <49.2 | <868 |

Notes:

Results reported in micrograms per cubic meter (ug/m³)
 Analysis performed by Envision Laboratories according to EPA Method TO-15
 IA = Indoor Air
 OA = Outdoor air (background)
 SS = Sub-slab vapor
Bolded values are above detection limits
Bolded and shaded values exceed the applicable residential screening or action level

Understanding Chemical Vapor Intrusion Testing Results

PUB-RR-977

Apr 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

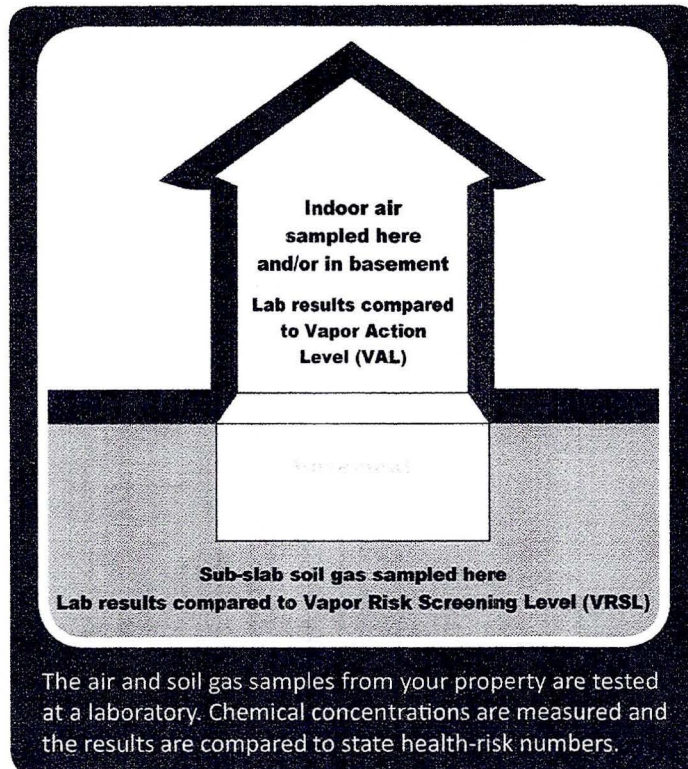
Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. If test results show chemical concentrations in your air below the VAL then adverse health effects are not expected, even if you were to breathe the chemical at this concentration for your whole life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposures to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor exceeds 10 times the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects. For cancer-causing chemicals, no more than 1 in 100,000 people breathing indoor air with chemical concentrations below the VAL are expected to get cancer from exposure to that chemical. Concentrations above the VAL are of greater concern.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.



Wisconsin Department of Natural Resources
P.O. Box 7921, Madison, WI 53707
dnr.wi.gov, search "Brownfields"



DNR generally relies on the test results of the sub-slab soil gas samples when determining what, if any, action should be taken related to chemical vapors coming from nearby soil or groundwater contamination. Indoor air quality is highly variable, and it is difficult to make a definitive decision about vapor intrusion based on indoor air sampling alone.

Follow-Up Actions

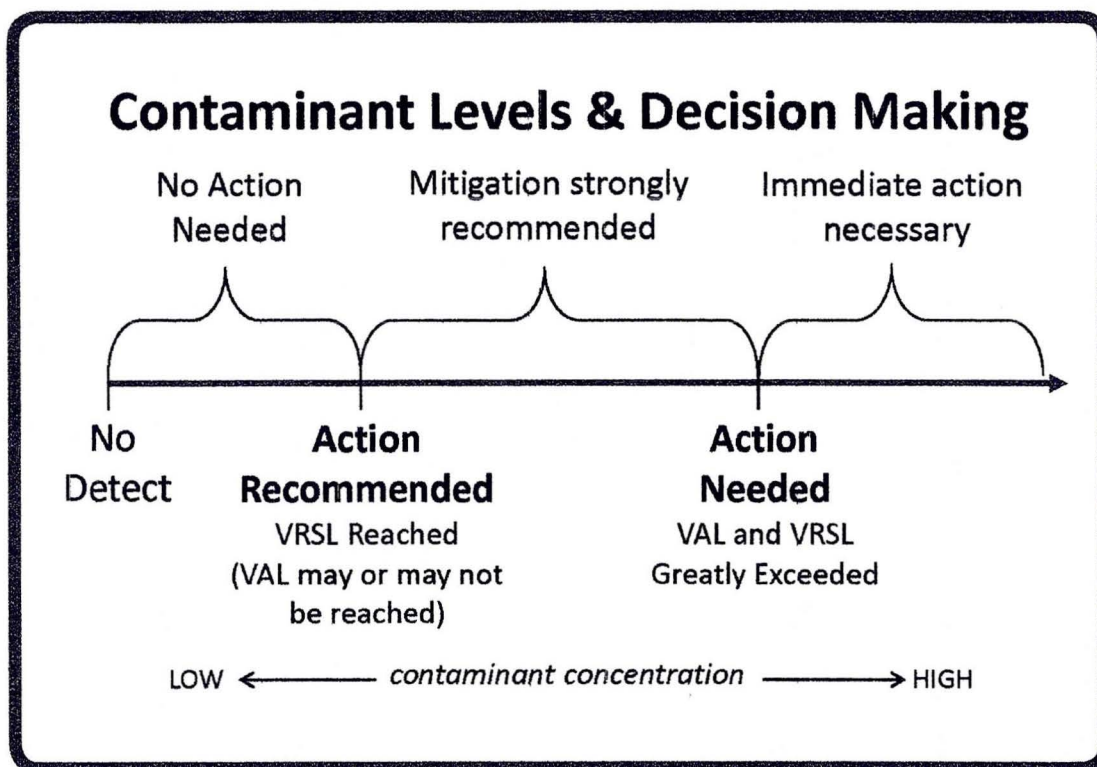
If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of

Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



A Note about Measurement Units: The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as “screening levels.”

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where $\mu\text{g}/\text{m}^3$ represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit dnr.wi.gov/topic/Brownfields/Vapor.html



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

December 8, 2014

ENVision Project Number: 2014-537
Client Project Name: 6165 Martino's 41st

Dear Mr. Kappen,

Please find the attached analytical report for the samples received November 21, 2014. 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,

A handwritten signature in black ink that reads "David Norris". The signature is written in a cursive style with a large, looped initial "D".

David Norris

Client Services Manager
EnvisionAir



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Client Name: ENVIROFORENSICS
Project ID: 6165 MARTINO'S 41ST
Client Project Manager: B. KAPPEN/K. HEIMSTEAD
EnvisionAir Project Number: 2014-537

Sample Summary

| | | <i>Canister Pressure / Vacuum</i> | | | | | | | | | |
|----------------------------------|----------------------------|-----------------------------------|-----------------------------|-----------------------------|-------------------|-------------------|------------------|-----------------|----------------------|--------------------|-------------------------------|
| <u>Laboratory Sample Number:</u> | <u>Sample Description:</u> | <u>Matrix:</u> | <u>START</u> <u>Date</u> | <u>START</u> <u>Time</u> | <u>End Date</u> | <u>End Time</u> | <u>Date</u> | <u>Time</u> | <u>Initial Field</u> | <u>Final Field</u> | <u>Lab</u> <u>Received</u> |
| | | | <u>Collected:</u> | <u>Collected:</u> | <u>Collected:</u> | <u>Collected:</u> | <u>Received:</u> | <u>Received</u> | <u>(in. Hg)</u> | <u>(in. Hg)</u> | <u>(in. Hg)</u> |
| 14-2044 | 6165-7528-OA-1 | A | 11/13/14 | 14:10 | 11/14/14 | 13:35 | 11/21/14 | 15:00 | -29 | -4 | -4 |
| 14-2045 | 6165-7528-IA-B | A | 11/13/14 | 14:15 | 11/14/14 | 13:40 | 11/21/14 | 15:00 | -30 | -4 | -4 |
| 14-2046 | 6165-7528-IA-F1 | A | 11/13/14 | 14:20 | 11/14/14 | 13:42 | 11/21/14 | 15:00 | -29 | -5 | -5 |
| 14-2047 | 6165-7528-IA-F2 | A | 11/13/14 | 14:25 | 11/14/14 | 13:45 | 11/21/14 | 15:00 | -29 | -4 | -4 |
| 14-2048 | 6165-7528-SS-1 | A | 11/14/14 | 14:00 | 11/14/14 | 14:07 | 11/21/14 | 15:00 | -28 | -2 | -2 |
| 14-2049 | 6165-7528-SS-2 | A | 11/14/14 | 14:25 | 11/14/14 | 14:30 | 11/21/14 | 15:00 | -28 | -2 | -2 |



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Client Name: ENVIROFORENSICS
Project ID: 6165 MARTINO'S 41ST
Client Project Manager: B. KAPPEN/K. HEIMSTEAD
EnvisionAir Project Number: 2014-537

Analytical Method: TO-15
Analytical Batch: 112214AIR(2)

Client Sample ID: 6165-7528-OA-1

Sample Collection START Date/Time: 11/13/14 14:10
Sample Collection END Date/Time: 11/14/14 13:35
Sample Received Date/Time: 11/21/14 15:00

Envision Sample Number: 14-2044
Sample Matrix: AIR

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|-----------------------------|--|---|-------------|
| 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 | |
| 1,1-Dichloropropene | < 45.4 | 45.4 | |
| 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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| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| 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 | |
| Trichlorethene | < 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) | 100% | | |
| Analysis Date/Time: | 11-23-14/09:45 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS
Project ID: 6165 MARTINO'S 41ST
Client Project Manager: B. KAPPEN/K. HEIMSTEAD
EnvisionAir Project Number: 2014-537

Analytical Method: TO-15
Analytical Batch: 112214AIR(2)

Client Sample ID: 6165-7528-IA-B

Sample Collection START Date/Time: 11/13/14 14:15

Envision Sample Number: 14-2045

Sample Collection END Date/Time: 11/14/14 13:40

Sample Matrix: AIR

Sample Received Date/Time: 11/21/14 15:00

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|-----------------------------|--|---|-------------|
| 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 | |
| 1,1-Dichloropropene | < 45.4 | 45.4 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | 11.9 | 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 | 7.83 | 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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| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| 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 | 10.2 | 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 | |
| Trichlorethene | < 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) | 105% | | |
| Analysis Date/Time: | 11-23-14/10:27 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS
Project ID: 6165 MARTINO'S 41ST
Client Project Manager: B. KAPPEN/K. HEIMSTEAD
EnvisionAir Project Number: 2014-537

Analytical Method: TO-15
Analytical Batch: 112214AIR(2)

Client Sample ID: 6165-7528-IA-F1

Sample Collection START Date/Time: 11/13/14 14:20

Envision Sample Number: 14-2046

Sample Collection END Date/Time: 11/14/14 13:42

Sample Matrix: AIR

Sample Received Date/Time: 11/21/14 15:00

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|-----------------------------|--|---|-------------|
| 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 | |
| 1,1-Dichloropropene | < 45.4 | 45.4 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | 15.3 | 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 | 7.38 | 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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| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| 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 | 115 | 86.8 | 2 |
| Hexachloro-1,3-butadiene | < 1.07 | 1.07 | |
| Isooctane | < 467 | 467 | |
| m,p-Xylene | 469 | 434 | 2 |
| Methylene Chloride | < 41.7 | 41.7 | |
| Methyl-tert-butyl ether | < 36.1 | 36.1 | |
| N-Heptane | < 410 | 410 | |
| N-Hexane | < 176 | 176 | |
| o-Xylene | 132 | 434 | 2,3 |
| 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 | |
| Trichlorethene | < 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) | 91% | | |
| Analysis Date/Time: | 11-23-14/11:03 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS
Project ID: 6165 MARTINO'S 41ST
Client Project Manager: B. KAPPEN/K. HEIMSTEAD
EnvisionAir Project Number: 2014-537

Analytical Method: TO-15
Analytical Batch: 120114CAIR

Client Sample ID: 6165-7528-IA-F2
Envision Sample Number: 14-2047
Sample Matrix: AIR

Sample Collection START Date/Time: 11/13/14 14:25
Sample Collection END Date/Time: 11/14/14 13:45
Sample Received Date/Time: 11/21/14 15:00

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|-----------------------------|--|---|-------------|
| 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 | |
| 1,1-Dichloropropene | < 45.4 | 45.4 | |
| 1,2,4-Trichlorobenzene | < 0.74 | 0.74 | |
| 1,2,4-Trimethylbenzene | 8.95 | 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 | 4.70 | 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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| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| 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 | 30.2 | 8.68 | |
| Hexachloro-1,3-butadiene | < 1.07 | 1.07 | |
| Isooctane | < 467 | 467 | |
| m,p-Xylene | 118 | 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 | |
| Trichlorethene | < 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) | 103% | | |
| Analysis Date/Time: | 12-1-14/15:48 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS
Project ID: 6165 MARTINO'S 41ST
Client Project Manager: B. KAPPEN/K. HEIMSTEAD
EnvisionAir Project Number: 2014-537

Analytical Method: TO-15
Analytical Batch: 112214AIR(1)

Client Sample ID: 6165-7528-SS-4 **Sample Collection START Date/Time:** 11/14/14 14:00
Envision Sample Number: 14-2048 **Sample Collection END Date/Time:** 11/14/14 14:07
Sample Matrix: AIR **Sample Received Date/Time:** 11/21/14 15:00

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|-----------------------------|--|---|-------------|
| 4-Ethyltoluene | < 4920 | 4920 | 2 |
| 4-Methyl-2-pentanone (MIBK) | < 20500 | 20500 | 2 |
| 1,1,1-Trichloroethane | < 5460 | 5460 | 2 |
| 1,1,1,2-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 |
| 1,1-Dichloropropene | < 454 | 454 | 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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| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| 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) | 94% | | |
| Analysis Date/Time: | 11-22-14/17:33 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS
Project ID: 6165 MARTINO'S 41ST
Client Project Manager: B. KAPPEN/K. HEIMSTEAD
EnvisionAir Project Number: 2014-537

Analytical Method: TO-15
Analytical Batch: 112214AIR(1)

Client Sample ID: 6165-7528-SS-2 **Sample Collection START Date/Time:** 11/14/14 14:25
Envision Sample Number: 14-2049 **Sample Collection END Date/Time:** 11/14/14 14:30
Sample Matrix: AIR **Sample Received Date/Time:** 11/21/14 15:00

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|-----------------------------|--|---|-------------|
| 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 |
| 1,1-Dichloropropene | < 454 | 454 | 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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| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| 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) | 92% | | |
| Analysis Date/Time: | 11-22-14/18:09 | | |
| Analyst Initials | tjg | | |



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 112214AIR(1)

| <u>Method Blank (MB):</u> | <u>MB Results (ppbv)</u> | <u>Reporting Limit (ppbv)</u> | <u>Flags</u> |
|-----------------------------|--------------------------|-------------------------------|--------------|
| 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 | |
| 1,1-Dichloropropene | < 10 | 10 | |
| 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) | 92% | | |
| Analysis Date/Time: | 11-22-14/12:39 | | |
| Analyst Initials | tjg | | |

| | LCS/LCSD | LCS Results (ppbv) | LCSD Results (ppbv) | LCS/D | LCS | LCSD | RPD | Flag |
|-----------------------------|----------|--------------------|---------------------|------------|------|------|-------|------|
| | | | | Conc(ppbv) | Rec. | Rec. | | |
| Propylene | | 8.77 | 8.34 | 10 | 88% | 83% | 5.0% | |
| Dichlorodifluoromethane | | 10.2 | 9.37 | 10 | 102% | 94% | 8.5% | |
| Chloromethane | | 9.22 | 9.05 | 10 | 92% | 91% | 1.9% | |
| Vinyl Chloride | | 9.79 | 8.58 | 10 | 98% | 86% | 13.2% | |
| 1,3-Butadiene | | 9.54 | 8.6 | 10 | 95% | 86% | 10.4% | |
| Bromomethane | | 10.1 | 8.98 | 10 | 101% | 90% | 11.7% | |
| Chloroethane | | 9.69 | 8.58 | 10 | 97% | 86% | 12.2% | |
| Vinyl Bromide | | 10.1 | 8.99 | 10 | 101% | 90% | 11.6% | |
| Trichlorofluoromethane | | 9.95 | 8.87 | 10 | 100% | 89% | 11.5% | |
| Acetone | | 10.8 | 9.72 | 10 | 108% | 97% | 10.5% | |
| 1,1-Dichloroethene | | 11.2 | 9.77 | 10 | 112% | 98% | 13.6% | |
| Methylene Chloride | | 9.47 | 8.73 | 10 | 95% | 87% | 8.1% | |
| Carbon Disulfide | | 9.96 | 9.02 | 10 | 100% | 90% | 9.9% | |
| trans-1,2-Dichloroethene | | 11.3 | 10.6 | 10 | 113% | 106% | 6.4% | |
| Methyl-tert-butyl ether | | 9.74 | 8.86 | 10 | 97% | 89% | 9.5% | |
| 1,1-Dichloroethane | | 10.4 | 9.4 | 10 | 104% | 94% | 10.1% | |
| Vinyl Acetate | | 11.8 | 10.5 | 10 | 118% | 105% | 11.7% | |
| N-Hexane | | 11.9 | 10.2 | 10 | 119% | 102% | 15.4% | |
| 2-Butanone (MEK) | | 10.8 | 10.9 | 10 | 108% | 109% | 0.9% | |
| cis-1,2-Dichloroethene | | 10.8 | 9.77 | 10 | 108% | 98% | 10.0% | |
| Ethyl Acetate | | 9.87 | 11 | 10 | 99% | 110% | 10.8% | |
| Chloroform | | 9.77 | 8.58 | 10 | 98% | 86% | 13.0% | |
| Tetrahydrofuran | | 10 | 9.17 | 10 | 100% | 92% | 8.7% | |
| 1,2-Dichloroethane | | 10.4 | 9.37 | 10 | 104% | 94% | 10.4% | |
| 1,1,1-Trichloroethane | | 9.62 | 9.07 | 10 | 96% | 91% | 5.9% | |
| 1,1-Dichloropropene | | 9.96 | 10.9 | 10 | 100% | 109% | 9.0% | |
| Carbon Tetrachloride | | 9.5 | 8.68 | 10 | 95% | 87% | 9.0% | |
| Benzene | | 10.5 | 10.5 | 10 | 105% | 105% | 0.0% | |
| Cyclohexane | | 10.9 | 11 | 10 | 109% | 110% | 0.9% | |
| 1,2-Dichloropropane | | 11 | 9.91 | 10 | 110% | 99% | 10.4% | |
| Trichloroethene | | 10 | 9.17 | 10 | 100% | 92% | 8.7% | |
| Bromodichloromethane | | 10.1 | 9.23 | 10 | 101% | 92% | 9.0% | |
| 1,4-Dioxane | | 10.6 | 10.7 | 10 | 106% | 107% | 0.9% | |
| Isooctane | | 10.8 | 9.76 | 10 | 108% | 98% | 10.1% | |
| N-Heptane | | 11 | 9.45 | 10 | 110% | 95% | 15.2% | |
| cis-1,3-Dichloropropene | | 11.6 | 10.6 | 10 | 116% | 106% | 9.0% | |
| 4-Methyl-2-pentanone (MIBK) | | 10.8 | 9.51 | 10 | 108% | 95% | 12.7% | |
| trans-1,3-Dichloropropene | | 10.3 | 10.6 | 10 | 103% | 106% | 2.9% | |
| 1,1,2-Trichloroethane | | 10.1 | 8.85 | 10 | 101% | 89% | 13.2% | |
| Toluene | | 11.8 | 10.4 | 10 | 118% | 104% | 12.6% | |
| 2-Hexanone | | 11.1 | 9.67 | 10 | 111% | 97% | 13.8% | |
| Dibromochloromethane | | 10.2 | 9.95 | 10 | 102% | 100% | 2.5% | |
| 1,2-dibromoethane (EDB) | | 10.7 | 10.8 | 10 | 107% | 108% | 0.9% | |
| Tetrachloroethene | | 10.2 | 10 | 10 | 102% | 100% | 2.0% | |
| Chlorobenzene | | 10.2 | 10.1 | 10 | 102% | 101% | 1.0% | |
| Ethylbenzene | | 11.6 | 11.3 | 10 | 116% | 113% | 2.6% | |
| m,p-Xylene | | 23 | 22.5 | 20 | 115% | 113% | 2.2% | |
| Bromoform | | 9.98 | 9.83 | 10 | 100% | 98% | 1.5% | |



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Analytical Report

| <u>LCS/LCSD</u> | <u>LCS Results (ppbv)</u> | <u>LCSD Results (ppbv)</u> | <u>LCS/D</u> <u>Conc(ppbv)</u> | <u>LCS</u> <u>Rec.</u> | <u>LCSD</u> <u>Rec.</u> | <u>RPD</u> | <u>Flag</u> |
|----------------------------------|---------------------------|----------------------------|-----------------------------------|---------------------------|----------------------------|------------|-------------|
| Styrene | 11.7 | 11.3 | 10 | 117% | 113% | 3.5% | |
| 1,1,2,2-Tetrachloroethane | 9.97 | 9.47 | 10 | 100% | 95% | 5.1% | |
| o-Xylene | 10.2 | 9.88 | 10 | 102% | 99% | 3.2% | |
| 4-Ethyltoluene | 9.82 | 11.1 | 10 | 98% | 111% | 12.2% | |
| 1,3,5-Trimethylbenzene | 11.4 | 11.1 | 10 | 114% | 111% | 2.7% | |
| 1,2,4-Trimethylbenzene | 11.7 | 11.4 | 10 | 117% | 114% | 2.6% | |
| 1,3-Dichlorobenzene | 11 | 10.7 | 10 | 110% | 107% | 2.8% | |
| Benzyl Chloride | 10.2 | 11.7 | 10 | 102% | 117% | 13.7% | |
| 1,4-Dichlorobenzene | 11.1 | 10.6 | 10 | 111% | 106% | 4.6% | |
| 1,2-Dichlorobenzene | 9.51 | 9.05 | 10 | 95% | 91% | 5.0% | |
| 1,2,4-Trichlorobenzene | 10.5 | 11 | 10 | 105% | 110% | 4.7% | |
| Hexachloro-1,3-butadiene | 10.7 | 11.5 | 10 | 107% | 115% | 7.2% | |
| 4-bromofluorobenzene (surrogate) | 100% | 101% | | | | | |
| Analysis Date/Time: | 11-22-14/11:29 | 11-22-14/12:05 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 112214AIR(2)

| <u>Method Blank (MB):</u> | <u>MB Results (ppbv)</u> | <u>Reporting Limit (ppbv)</u> | <u>Flags</u> |
|-----------------------------|--------------------------|-------------------------------|--------------|
| 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 | |
| 1,1-Dichloropropene | < 10 | 10 | |
| 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

| <u>Method Blank (MB):</u> | <u>MB Results (ppbv)</u> | <u>Reporting Limit (ppbv)</u> | <u>Flags</u> | | | |
|----------------------------------|--------------------------|-------------------------------|--------------|--|--|--|
| 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) | 94% | | | | | |
| Analysis Date/Time: | 11-22-14/22:02 | | | | | |
| Analyst Initials | tjg | | | | | |

| <u>LCS/LCSD</u> | <u>LCS Results (ppbv)</u> | <u>LCSD Results (ppbv)</u> | <u>LCS/D</u> | <u>LCS</u> | <u>LCSD</u> | <u>RPD</u> | <u>Flag</u> |
|-----------------------------|---------------------------|----------------------------|-------------------|-------------|-------------|------------|-------------|
| | | | <u>Conc(ppbv)</u> | <u>Rec.</u> | <u>Rec.</u> | | |
| Propylene | 8.86 | 8.49 | 10 | 89% | 85% | 4.3% | |
| Dichlorodifluoromethane | 9.88 | 9.28 | 10 | 99% | 93% | 6.3% | |
| Chloromethane | 8.84 | 9.08 | 10 | 88% | 91% | 2.7% | |
| Vinyl Chloride | 9.22 | 9.18 | 10 | 92% | 92% | 0.4% | |
| 1,3-Butadiene | 9.21 | 8.9 | 10 | 92% | 89% | 3.4% | |
| Bromomethane | 9.95 | 10.1 | 10 | 100% | 101% | 1.5% | |
| Chloroethane | 9.33 | 9.49 | 10 | 93% | 95% | 1.7% | |
| Vinyl Bromide | 9.74 | 9.95 | 10 | 97% | 100% | 2.1% | |
| Trichlorofluoromethane | 10.2 | 10.3 | 10 | 102% | 103% | 1.0% | |
| Acetone | 10.3 | 10.7 | 10 | 103% | 107% | 3.8% | |
| 1,1-Dichloroethene | 10.4 | 10.8 | 10 | 104% | 108% | 3.8% | |
| Methylene Chloride | 9.48 | 9.49 | 10 | 95% | 95% | 0.1% | |
| Carbon Disulfide | 9.63 | 9.85 | 10 | 96% | 99% | 2.3% | |
| trans-1,2-Dichloroethene | 10.8 | 11.5 | 10 | 108% | 115% | 6.3% | |
| Methyl-tert-butyl ether | 8.88 | 8.99 | 10 | 89% | 90% | 1.2% | |
| 1,1-Dichloroethane | 9.92 | 10.2 | 10 | 99% | 102% | 2.8% | |
| Vinyl Acetate | 11.2 | 11.5 | 10 | 112% | 115% | 2.6% | |
| N-Hexane | 11 | 11.6 | 10 | 110% | 116% | 5.3% | |
| 2-Butanone (MEK) | 11.9 | 12 | 10 | 119% | 120% | 0.8% | |
| cis-1,2-Dichloroethene | 10.5 | 10.6 | 10 | 105% | 106% | 0.9% | |
| Ethyl Acetate | 11.9 | 9.38 | 10 | 119% | 94% | 23.7% | 4 |
| Chloroform | 9.66 | 9.79 | 10 | 97% | 98% | 1.3% | |
| Tetrahydrofuran | 11.5 | 11 | 10 | 115% | 110% | 4.4% | |
| 1,2-Dichloroethane | 9.28 | 9.43 | 10 | 93% | 94% | 1.6% | |
| 1,1,1-Trichloroethane | 9.07 | 9.19 | 10 | 91% | 92% | 1.3% | |
| 1,1-Dichloropropene | 10.9 | 11.2 | 10 | 109% | 112% | 2.7% | |
| Carbon Tetrachloride | 8.77 | 8.9 | 10 | 88% | 89% | 1.5% | |
| Benzene | 10.4 | 10.4 | 10 | 104% | 104% | 0.0% | |
| Cyclohexane | 10.8 | 10.9 | 10 | 108% | 109% | 0.9% | |
| 1,2-Dichloropropane | 9.8 | 9.77 | 10 | 98% | 98% | 0.3% | |
| Trichlorethene | 9.18 | 9.35 | 10 | 92% | 94% | 1.8% | |
| Bromodichloromethane | 9.43 | 9.47 | 10 | 94% | 95% | 0.4% | |
| 1,4-Dioxane | 11 | 11.5 | 10 | 110% | 115% | 4.4% | |
| Isooctane | 10.3 | 10.5 | 10 | 103% | 105% | 1.9% | |
| N-Heptane | 10 | 10.3 | 10 | 100% | 103% | 3.0% | |
| cis-1,3-Dichloropropene | 10.5 | 10.8 | 10 | 105% | 108% | 2.8% | |
| 4-Methyl-2-pentanone (MIBK) | 9.69 | 10.3 | 10 | 97% | 103% | 6.1% | |
| trans-1,3-Dichloropropene | 10.9 | 11 | 10 | 109% | 110% | 0.9% | |
| 1,1,2-Trichloroethane | 9.5 | 9.8 | 10 | 95% | 98% | 3.1% | |
| Toluene | 10.7 | 11 | 10 | 107% | 110% | 2.8% | |
| 2-Hexanone | 10 | 10.1 | 10 | 100% | 101% | 1.0% | |
| Dibromochloromethane | 10.1 | 10.2 | 10 | 101% | 102% | 1.0% | |
| 1,2-dibromoethane (EDB) | 10.5 | 11 | 10 | 105% | 110% | 4.7% | |
| Tetrachloroethene | 9.76 | 10.5 | 10 | 98% | 105% | 7.3% | |
| Chlorobenzene | 9.73 | 10.3 | 10 | 97% | 103% | 5.7% | |
| Ethylbenzene | 10.5 | 11 | 10 | 105% | 110% | 4.7% | |
| m,p-Xylene | 22.3 | 22.4 | 20 | 112% | 112% | 0.4% | |
| Bromoform | 10.6 | 10.7 | 10 | 106% | 107% | 0.9% | |



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Analytical Report

| <u>LCS/LCSD</u> | <u>LCS Results (ppbv)</u> | <u>LCSD Results (ppbv)</u> | <u>LCS/D</u> <u>Conc(ppbv)</u> | <u>LCS</u> <u>Rec.</u> | <u>LCSD</u> <u>Rec.</u> | <u>RPD</u> | <u>Flag</u> |
|----------------------------------|---------------------------|----------------------------|-----------------------------------|---------------------------|----------------------------|------------|-------------|
| Styrene | 10.9 | 11.3 | 10 | 109% | 113% | 3.6% | |
| 1,1,2,2-Tetrachloroethane | 10.2 | 10.4 | 10 | 102% | 104% | 1.9% | |
| o-Xylene | 10.4 | 10.6 | 10 | 104% | 106% | 1.9% | |
| 4-Ethyltoluene | 9.87 | 10.6 | 10 | 99% | 106% | 7.1% | |
| 1,3,5-Trimethylbenzene | 11.2 | 11.6 | 10 | 112% | 116% | 3.5% | |
| 1,2,4-Trimethylbenzene | 11.6 | 10.6 | 10 | 116% | 106% | 9.0% | |
| 1,3-Dichlorobenzene | 11.3 | 11.6 | 10 | 113% | 116% | 2.6% | |
| Benzyl Chloride | 11.5 | 11.8 | 10 | 115% | 118% | 2.6% | |
| 1,4-Dichlorobenzene | 11.2 | 11.8 | 10 | 112% | 118% | 5.2% | |
| 1,2-Dichlorobenzene | 10.7 | 9.32 | 10 | 107% | 93% | 13.8% | |
| 1,2,4-Trichlorobenzene | 11.4 | 9.65 | 10 | 114% | 97% | 16.6% | |
| Hexachloro-1,3-butadiene | 10.7 | 11.1 | 10 | 107% | 111% | 3.7% | |
| 4-bromofluorobenzene (surrogate) | 102% | 101% | | | | | |
| Analysis Date/Time: | 11-22-14/20:39 | 11-22-14/21:17 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 120114CAIR

| <u>Method Blank (MB):</u> | <u>MB Results (ppbv)</u> | <u>Reporting Limit (ppbv)</u> | <u>Flags</u> |
|-----------------------------|--------------------------|-------------------------------|--------------|
| 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 | |
| 1,1-Dichloropropene | < 10 | 10 | |
| 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

| <u>Method Blank (MB):</u> | <u>MB Results (ppbv)</u> | <u>Reporting Limit (ppbv)</u> | <u>Flags</u> |
|----------------------------------|--------------------------|-------------------------------|--------------|
| 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: | 12-1-14/11:03 | | |
| Analyst Initials | tjg | | |

| <u>LCS/LCSD</u> | <u>LCS Results (ppbv)</u> | <u>LCSD Results (ppbv)</u> | <u>LCS/D</u> <u>Conc(ppbv)</u> | <u>LCS</u> <u>Rec.</u> | <u>LCSD</u> <u>Rec.</u> | <u>RPD</u> | <u>Flag</u> |
|-----------------------------|---------------------------|----------------------------|-----------------------------------|---------------------------|----------------------------|------------|-------------|
| Propylene | 11.8 | 9.75 | 10 | 118% | 98% | 19.0% | |
| Dichlorodifluoromethane | 9.43 | 10.6 | 10 | 94% | 106% | 11.7% | |
| Chloromethane | 9.84 | 9.41 | 10 | 98% | 94% | 4.5% | |
| Vinyl Chloride | 8.94 | 9.5 | 10 | 89% | 95% | 6.1% | |
| 1,3-Butadiene | 10.4 | 10.2 | 10 | 104% | 102% | 1.9% | |
| Bromomethane | 8.99 | 9.74 | 10 | 90% | 97% | 8.0% | |
| Chloroethane | 8.88 | 9.86 | 10 | 89% | 99% | 10.5% | |
| Vinyl Bromide | 8.65 | 9.72 | 10 | 87% | 97% | 11.6% | |
| Trichlorofluoromethane | 8.3 | 8.71 | 10 | 83% | 87% | 4.8% | |
| Acetone | 9.77 | 9.81 | 10 | 98% | 98% | 0.4% | |
| 1,1-Dichloroethene | 9.11 | 10.1 | 10 | 91% | 101% | 10.3% | |
| Methylene Chloride | 8.19 | 8.92 | 10 | 82% | 89% | 8.5% | |
| Carbon Disulfide | 8.39 | 9.46 | 10 | 84% | 95% | 12.0% | |
| trans-1,2-Dichloroethene | 9.99 | 11.1 | 10 | 100% | 111% | 10.5% | |
| Methyl-tert-butyl ether | 8.45 | 8.6 | 10 | 85% | 86% | 1.8% | |
| 1,1-Dichloroethane | 8.86 | 9.6 | 10 | 89% | 96% | 8.0% | |
| Vinyl Acetate | 10.3 | 11.5 | 10 | 103% | 115% | 11.0% | |
| N-Hexane | 9.56 | 10.7 | 10 | 96% | 107% | 11.3% | |
| 2-Butanone (MEK) | 10.9 | 11.7 | 10 | 109% | 117% | 7.1% | |
| cis-1,2-Dichloroethene | 9.3 | 10.3 | 10 | 93% | 103% | 10.2% | |
| Ethyl Acetate | 10.5 | 11.4 | 10 | 105% | 114% | 8.2% | |
| Chloroform | 8.29 | 9.26 | 10 | 83% | 93% | 11.1% | |
| Tetrahydrofuran | 10.5 | 9.65 | 10 | 105% | 97% | 8.4% | |
| 1,2-Dichloroethane | 8.78 | 10 | 10 | 88% | 100% | 13.0% | |
| 1,1,1-Trichloroethane | 8.66 | 9.61 | 10 | 87% | 96% | 10.4% | |
| 1,1-Dichloropropene | 10.5 | 11.9 | 10 | 105% | 119% | 12.5% | |
| Carbon Tetrachloride | 8.11 | 9.08 | 10 | 81% | 91% | 11.3% | |
| Benzene | 10 | 11.2 | 10 | 100% | 112% | 11.3% | |
| Cyclohexane | 10.5 | 11.5 | 10 | 105% | 115% | 9.1% | |
| 1,2-Dichloropropane | 9.09 | 10.2 | 10 | 91% | 102% | 11.5% | |
| Trichloroethene | 8.56 | 9.91 | 10 | 86% | 99% | 14.6% | |
| Bromodichloromethane | 8.63 | 9.96 | 10 | 86% | 100% | 14.3% | |
| 1,4-Dioxane | 9.65 | 11.7 | 10 | 97% | 117% | 19.2% | |
| Isooctane | 9.27 | 10.3 | 10 | 93% | 103% | 10.5% | |
| N-Heptane | 10.4 | 11.5 | 10 | 104% | 115% | 10.0% | |
| cis-1,3-Dichloropropene | 10.2 | 11.5 | 10 | 102% | 115% | 12.0% | |
| 4-Methyl-2-pentanone (MIBK) | 10.1 | 11.2 | 10 | 101% | 112% | 10.3% | |
| trans-1,3-Dichloropropene | 10.2 | 11.4 | 10 | 102% | 114% | 11.1% | |
| 1,1,2-Trichloroethane | 8.53 | 9.76 | 10 | 85% | 98% | 13.4% | |
| Toluene | 9.92 | 11.5 | 10 | 99% | 115% | 14.8% | |
| 2-Hexanone | 10.9 | 11.6 | 10 | 109% | 116% | 6.2% | |
| Dibromochloromethane | 8.15 | 9.86 | 10 | 82% | 99% | 19.0% | |
| 1,2-dibromoethane (EDB) | 9.08 | 10.6 | 10 | 91% | 106% | 15.4% | |
| Tetrachloroethene | 9.08 | 9.53 | 10 | 91% | 95% | 4.8% | |
| Chlorobenzene | 8.44 | 9.79 | 10 | 84% | 98% | 14.8% | |
| Ethylbenzene | 10.6 | 10.9 | 10 | 106% | 109% | 2.8% | |
| m,p-Xylene | 20.4 | 21.4 | 20 | 102% | 107% | 4.8% | |
| Bromoform | 8.31 | 9.59 | 10 | 83% | 96% | 14.3% | |



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Analytical Report

| <u>LCS/LCSD</u> | <u>LCS Results (ppbv)</u> | <u>LCSD Results (ppbv)</u> | <u>LCS/D</u> <u>Conc(ppbv)</u> | <u>LCS</u> <u>Rec.</u> | <u>LCSD</u> <u>Rec.</u> | <u>RPD</u> | <u>Flag</u> |
|----------------------------------|---------------------------|----------------------------|-----------------------------------|---------------------------|----------------------------|------------|-------------|
| Styrene | 10.4 | 11.9 | 10 | 104% | 119% | 13.5% | |
| 1,1,2,2-Tetrachloroethane | 8.45 | 8.91 | 10 | 85% | 89% | 5.3% | |
| o-Xylene | 8.07 | 9.35 | 10 | 81% | 94% | 14.7% | |
| 4-Ethyltoluene | 11 | 10.8 | 10 | 110% | 108% | 1.8% | |
| 1,3,5-Trimethylbenzene | 8.89 | 10.2 | 10 | 89% | 102% | 13.7% | |
| 1,2,4-Trimethylbenzene | 8.81 | 9.74 | 10 | 88% | 97% | 10.0% | |
| 1,3-Dichlorobenzene | 8.13 | 9.78 | 10 | 81% | 98% | 18.4% | |
| Benzyl Chloride | 10.7 | 10.2 | 10 | 107% | 102% | 4.8% | |
| 1,4-Dichlorobenzene | 8.22 | 9.73 | 10 | 82% | 97% | 16.8% | |
| 1,2-Dichlorobenzene | 8.7 | 8.77 | 10 | 87% | 88% | 0.8% | |
| 1,2,4-Trichlorobenzene | 8.66 | 8.89 | 10 | 87% | 89% | 2.6% | |
| Hexachloro-1,3-butadiene | 8.72 | 8.21 | 10 | 87% | 82% | 6.0% | |
| 4-bromofluorobenzene (surrogate) | 96% | 97% | | | | | |
| Analysis Date/Time: | 12-1-14/09:14 | 12-1-14/10:27 | | | | | |
| 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 12-3-14 |
| 3 | Reported value is below the reporting limit but above the MDL. TJG 12-3-14 |
| 4 | RPD is biased high, but recoveries are within control. TJG 12-3-14 |

BJK

CHAIN OF CUSTODY RECORD

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

| | |
|--|---|
| Client: <u>Enviro-Facilities</u> | P.O. Number: |
| Report <u>NIG WESSKO Stone Ridge Pt</u> Address: <u>J. W. Kisha WI 53188</u> | Project Name or Number: <u>6165</u> <u>Martino's 41st</u> |
| Report To: <u>B. Kappan / K. Heimstead</u> | Sampled by: <u>K. Heimstead</u> |
| Phone: <u>317-972-7870</u> | QA/QC Required: (circle if applicable) Level III <u>Level IV</u> |
| Invoice Address: | Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV |
| Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u> | 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) | | | | Canister Serial # | Flow Controller Serial # | Initial Field (in. Hg) | Final Field (in. Hg) | Lab Received (in. Hg) | EnvisionAir Sample Number |
|------------------------------|-----------------------------|------------------------------|------------------------------|------------------------|------------------------|---|--|--|-------------------|--------------------------|------------------------|----------------------|-----------------------|---------------------------|
| 6165-7528-OA-1 | 6LC | 11-13-14 | 1410 | 11-14-14 | 1335 | X | | | 91539 | 05723 | -29 | -4 | -4 | 14-2044 |
| 6165-7528-IA-B | 6LC | 11-13-14 | 1415 | 11-14-14 | 1340 | X | | | 80637 | 07301 | -30 | -4 | -4 | 14-2045 |
| 6165-7528-IA-F1 | 6LC | 11-13-14 | 1420 | 11-14-14 | 1342 | X | | | 11079 | 09147 | -29 | -5 | -5 | 14-2046 |
| 6165-7528-IA-F2 | 6LC | 11-13-14 | 1425 | 11-14-14 | 1345 | X | | | 10345 | 05722 | -29 | -4 | -4 | 14-2047 |
| 6165-7528-IA (RH) | | | | | | | | | | | | | | |
| 6165-7528-SS-1 | 1LC | 11-14-14 | 1400 | 11-14-14 | 1467 | X | | | 522 | - | -28 | -2 | -2 | 14-2048 |
| 6165-7528-SS-2 | 1LC | 11-14-14 | 1425 | 11-14-14 | 1430 | X | | | 83842 | - | -28 | -2 | -2 | 14-2049 |

Comments: Level IV QA/QC needed on 6LC only.

| Relinquished by: | Date | Time | Received by: | Date | Time |
|--------------------|------------|------|---------------------|------------|-------|
| <u>[Signature]</u> | 11/18/2014 | 1200 | Fed Ex | 11/18/2014 | 1200 |
| | | | <u>Suzanne Vick</u> | 11/21/14 | 15:00 |