



RECEIVED

May 6, 2016

Frank Marinello
2248 South 108th Street
West Allis, WI 53227

MAY 16 2015

Initial:

Subject: Environmental Sampling Results Notification
2248 South 108th Street, West Allis, Wisconsin
BRRTS# 02-41-246246

File 241287530

Dear Mr. Marinello:

In accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, Environmental Forensic Investigations, Inc. (EnviroForensics) is providing the results of the environmental samples collected from your property located at 2248 South 108th Street in West Allis, Wisconsin. The indoor sample was collected on April 6, 2015. The sampling activities are part of an environmental investigation being performed for the One Hour Martinizing facility located at 2262 S 108th Street in West Allis 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.

After the indoor air sample was collected, sub-slab depressurization system (SSDS) commissioning activities were performed. Commissioning activities included the installation of three (3) permanent sub-slab points to measure sub-slab pressure readings. The commissioning activities are required per Wisconsin Administrative Code NR724.13.

The Responsible Party is:

Mr. Brian Cass
OHM Holdings, Inc.
W229 N2494 Hwy F
Waukesha, WI 53186
Telephone: 262-521-9710

Sampling Results

One (1) indoor air sample designated 6406-2248-IA-B was collected from the basement. For quality control purposes a sample of outdoor air designated 6406-2248-OA-1 was also collected. To ensure the SSDS recently installed is still working effectively, measurements were taken at

the sub-slab ports. The sampling locations and sub-slab pressure reading locations are depicted on the attached **Figure 1**. The laboratory report that relates to the air samples is also attached.

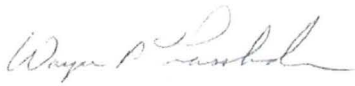
As shown in the attached **Table**, PCE was detected in sample 6406-2248-IA-B at a concentration of 14.7 micrograms per cubic meter (ug/m^3), which is well below the WDNR Vapor Action Level of $180 \text{ ug}/\text{m}^3$ established for commercial properties. No other chemicals of concern were detected in the indoor air samples or the outdoor air sample.

As can be seen on the attached **Figure 1**, the SSDS is creating a vacuum beneath the entire basement floor of the building, indicating the system is working effectively.

We will need to perform one (1) additional indoor air sampling and SSDS commissioning event during the upcoming summer months. We will contact you to schedule these activities.

If you have any questions or concerns, please contact me at 414-982-3988 or by email at wfassbender@enviroforensics.com. The WDNR project manager, John Hnat, can be reached at 414-263-8644. We greatly appreciate your help and patience with this matter.

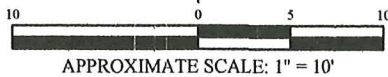
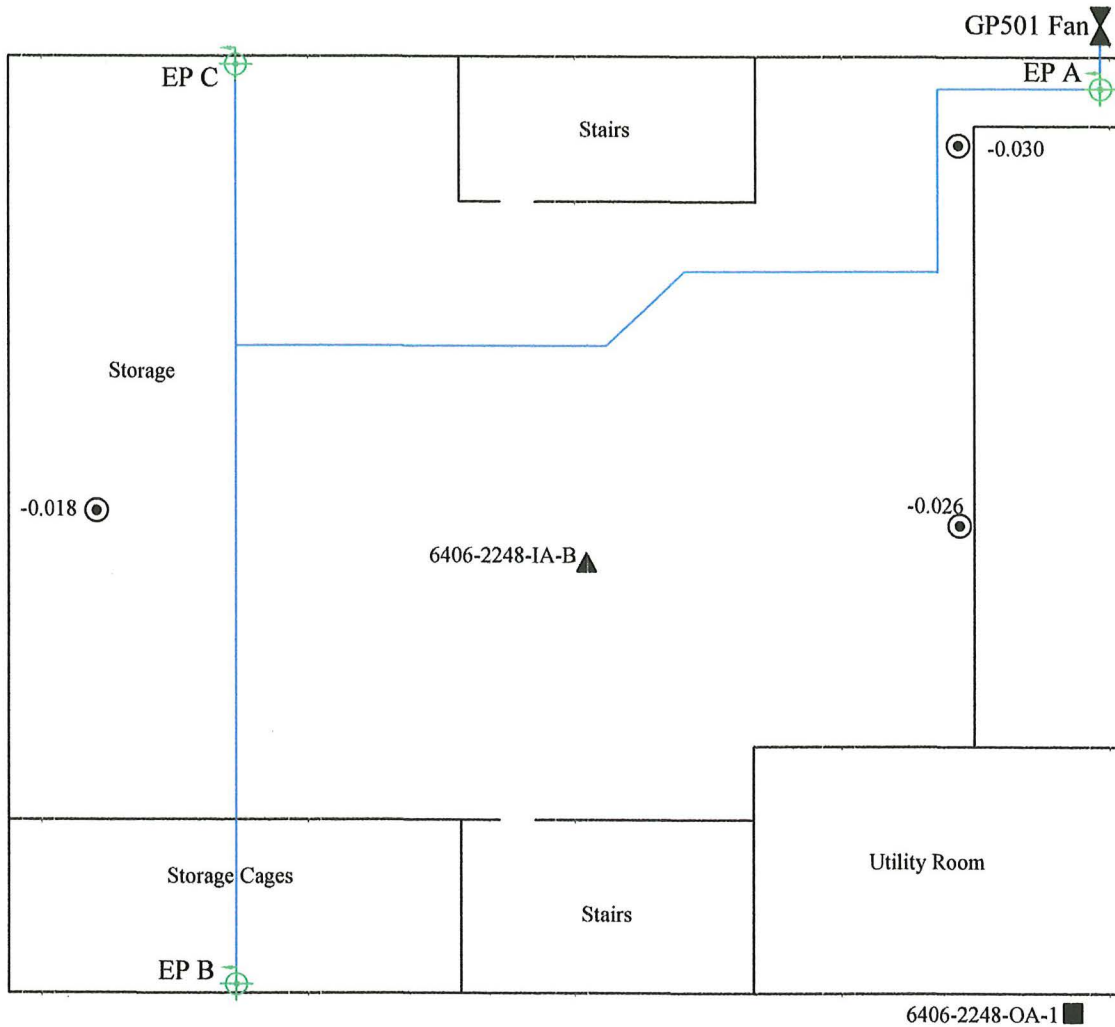
Sincerely,
Environmental Forensic Investigations, Inc.

A handwritten signature in black ink, appearing to read "Wayne Fassbender".

Wayne Fassbender, PG, PMP
Senior Project Manager

Copy: John Hnat, Wisconsin Department of Natural Resources

Attachments: Vapor Intrusion Sample Location Map
Tabulated Summary of Vapor Intrusion Sampling Results
Laboratory Analytical Report



Legend

- EP-1 Extraction point
- Mitigation Fan
- Piping
- Sub-slab pressure sample
- OA-1 Outdoor air sample
- IA-B Indoor air sample

(-1.1) PFE Readings in inches of water (in H₂O)

| No. | Date | Revision | Approved |
|-----|------|----------|----------|
| | | | |
| | | | |
| | | | |

ENVIROforensics
 ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
 802 N. Capitol Ave., Suite 210 • Indianapolis, IN 46204
 EnviroForensics.com

| | |
|-----------|-----------|
| Date: | 5/12/16 |
| Designed: | EB |
| Drawn: | EB |
| Checked: | KH |
| DWG file: | 6406-0173 |

SUB SLAB DEPRESSURIZATION SYSTEM LAYOUT
 Marinello Property
 2248 South 108th Street
 West Allis, Wisconsin

| | |
|---------|------|
| Figure | 1 |
| Project | 6406 |



EnvisionAir
1441 Sadlier Circle West Drive
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www.envision-air.com

Mr. Wayne Fassbender
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

April 28, 2016

EnvisionAir Project Number: 2016-288
Client Project Name: 6406

Dear Mr. Fassbender,

Please find the attached analytical report for the samples received April 13, 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,

A handwritten signature in cursive script that reads "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
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Client Name: ENVIROFORENSICS
Project ID: 6406
Client Project Manager: W. FASSBENDER
EnvisionAir Project Number: 2016-288

Sample Summary

Canister Pressure / Vacuum

| <u>Laboratory Sample Number:</u> | <u>Sample Description:</u> | <u>Matrix:</u> | <u>START</u> | <u>START</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>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> |
| 16-1039 | 6406-2248-OA-1 | A | 4/6/16 | 6:53 | 4/6/16 | 14:58 | 4/13/16 | 11:45 | -30 | -5 | -5 |
| 16-1040 | 6406-2248-IA-B | A | 4/6/16 | 6:48 | 4/6/16 | 14:56 | 4/13/16 | 11:45 | -30 | -4.5 | -4.5 |
| 16-1041 | 6406-2262-IA-1 | A | 4/6/16 | 6:57 | 4/6/16 | 15:06 | 4/13/16 | 11:45 | -28 | -3 | -3 |



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Client Name: ENVIROFORENSICS

Project ID: 6406

Client Project Manager: W. FASSBENDER

EnvisionAir Project Number: 2016-288

Analytical Method: TO-15
Analytical Batch: 041816CAIR

Client Sample ID: 6406-2248-OA-1

Sample Collection START Date/Time: 4/6/16 6:53

Sample Collection END Date/Time: 4/6/16 14:58

Envision Sample Number: 16-1039

Sample Received Date/Time: 4/13/16 11:45

Sample Matrix: AIR

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| cis-1,2-Dichloroethene | < 3.96 | 3.96 | |
| Tetrachloroethene | < 3.19 | 3.19 | |
| trans-1,2-Dichloroethene | < 3.96 | 3.96 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 0.64 | 0.64 | |
| 4-bromofluorobenzene (surrogate) | 121% | | |
| Analysis Date/Time: | 4-19-16/02:28 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS

Project ID: 6406

Client Project Manager: W. FASSBENDER

EnvisionAir Project Number: 2016-288

Analytical Method: TO-15
Analytical Batch: 041816CAIR

Client Sample ID: 6406-2248-IA-B

Sample Collection START Date/Time: 4/6/16 6:48

Sample Collection END Date/Time: 4/6/16 14:56

Envision Sample Number: 16-1040

Sample Received Date/Time: 4/13/16 11:45

Sample Matrix: AIR

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| cis-1,2-Dichloroethene | < 3.96 | 3.96 | |
| Tetrachloroethene | 14.7 | 3.19 | |
| trans-1,2-Dichloroethene | < 3.96 | 3.96 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 0.64 | 0.64 | |
| 4-bromofluorobenzene (surrogate) | 102% | | |
| Analysis Date/Time: | 4-19-16/03:08 | | |
| Analyst Initials | tjg | | |



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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 041816CAIR

| <u>Method Blank (MB):</u> | <u>MB Results (ppbv)</u> | <u>Reporting Limit (ppbv)</u> | <u>Flags</u> | | | |
|----------------------------------|--------------------------|-------------------------------|--------------|--|--|--|
| cis-1,2-Dichloroethene | < 5 | 5 | | | | |
| Tetrachloroethene | < 0.47 | 0.47 | | | | |
| trans-1,2-Dichloroethene | < 10 | 10 | | | | |
| Trichloroethene | < 0.2 | 0.2 | | | | |
| Vinyl Chloride | < 0.5 | 0.5 | | | | |
| 4-bromofluorobenzene (surrogate) | 113% | | | | | |
| Analysis Date/Time: | 4-19-16/00:11 | | | | | |
| 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> |
|----------------------------------|---------------------------|----------------------------|-----------------------------------|---------------------------|----------------------------|------------|-------------|
| cis-1,2-Dichloroethene | 10.7 | 10.2 | 10 | 107% | 102% | 4.8% | |
| Tetrachloroethene | 9.59 | 9.62 | 10 | 96% | 96% | 0.3% | |
| trans-1,2-Dichloroethene | 11.1 | 10.4 | 10 | 111% | 104% | 6.5% | |
| Trichloroethene | 9.81 | 10 | 10 | 98% | 100% | 1.9% | |
| Vinyl Chloride | 10.9 | 10.5 | 10 | 109% | 105% | 3.7% | |
| 4-bromofluorobenzene (surrogate) | 107% | 108% | | | | | |
| Analysis Date/Time: | 4-18-16/22:50 | 4-18-16/23:32 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |



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Flag Number

1

Comments

Reported value is from a 10x dilution. TJG 4-27-16

WAF

CHAIN OF CUSTODY RECORD

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

| | |
|--|---|
| Client: <u>EnviroForensics</u> | P.O. Number: <u>2016305</u> |
| Report Address: <u>N16 W33390 Stone Ridge Dr Waukesha, WI 53188</u> | Project Name or Number: <u>6406</u> |
| Report To: <u>W. Fassbender K. VanderHelden</u> | Sampled by: <u>K. VanderHelden</u> |
| Phone: <u>517 972 7570</u> | QA/QC Required: (circle if applicable) Level III <u>Level IV</u> |
| Invoice Address: | Reporting Units needed: (circle) <u>µg/m³</u> mg/m³ 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 <small>(see code above)</small> | Coll. Date <small>(Grab/Comp Start)</small> | Coll. Time <small>(Grab/Comp Start)</small> | Coll. Date <small>(Comp. End)</small> | Coll. Time <small>(Comp. End)</small> | | | | | Canister Serial # | Flow Controller Serial # | Initial Field (in. Hg) | Final Field (in. Hg) | Lab Received (in. Hg) | EnvisionAir Sample Number |
|----------------|---|--|--|--|--|---|--|--|--|-------------------|--------------------------|------------------------|----------------------|-----------------------|---------------------------|
| 6406-2248-OA-1 | 6LC | 4/6 | 0653 | 4/6 | 1458 | X | | | | 4687 | 07256 | -30 | -5 | -5 | 16-1039 |
| 6406-2248-IA-R | 6LC | 4/6 | 0648 | 4/6 | 1456 | < | | | | 19625 | 05248 | -30 | -4.5 | -4.5 | 16-1040 |
| 6406-2262-IA-1 | 6LC | 4/6 | 0657 | 4/6 | 1506 | X | | | | 17896 | 05308 | -28 | -3 | -3 | 16-1041 |
| | | | | | | | | | | | | | | | |
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Comments:

| | | | | | |
|-------------------------|-------------|-------------|---|-------------|-------------|
| Relinquished by: | Date | Time | Received by: | Date | Time |
| <u>[Signature]</u> | 4/7/16 | 0900 | <u>Fed Ex</u> <u>Anthony A. Rannucci</u> | 4/13/16 | 1145 |

TABLE
VAPOR INTRUSION SAMPLING ANALYTICAL RESULTS
2248 S. 108th STREET
 One Hour Martinizing
 2262 South 108th Street, West Allis, Wisconsin

| Sample Address | Sample Identification | Sample Location | Applicable Criteria | Date Sampled | Mitigation | Chlorinated VOCs | | | | |
|---|-----------------------|-----------------|---------------------|--------------|------------|-------------------|-----------------|------------------------|--------------------------|----------------|
| | | | | | | Tetrachloroethene | Trichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Vinyl Chloride |
| INDOOR/ OUTDOOR AIR | | | | | | | | | | |
| Non-Residential Vapor Action Level | | | | | | 180 | 8.8 | NE | NE | 28 |
| 2248 S. 108th St. | 6406-2248-IA-B | Basement | Non-Residential | 4/6/2016 | Yes | 14.7 | <1.07 | <3.96 | <3.96 | <0.64 |
| | 6406-2248-OA-1 | Outdoor | Non-Residential | 4/6/2016 | Yes | <3.19 | <1.07 | <3.96 | <3.96 | <0.64 |

Notes:

Results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Analysis performed by Envision Laboratory according to EPA Method TO-15

IA = Indoor Air

OA = Outdoor Air

NE = Not Established

Bolded values are above detection limits