



February 26, 2020

Alphonse Jr. and Margaret Uselding
1756 North Holden Street
Port Washington, WI 53074

Subject: Environmental Investigation Sampling Results
BRRTS#: 02-46-548092

Dear Mr. Uselding:

In accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, EnviroForensics, LLC (EnviroForensics) is providing the results of environmental samples collected from your property located at 105-107 North Franklin Street in Port Washington, Wisconsin on February 17-18, 2020. The sampling activities are part of an environmental investigation being performed for the Harborview Cleaners facility located at 134 East Grand Avenue in Port Washington, Wisconsin at the direction of the WDNR. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

Sampling Results

Two (2) indoor air samples were collected from the basement of your property located at 105-107 North Franklin Street. A third sample canister was set up on the first floor but no air was collected due to equipment malfunction. One (1) outdoor air sample was also collected for quality control purposes. The sample locations are shown on the attached figure. One soil gas sample was collected to determine the concentrations of the chemicals of concern emitted in the basement sub-slab depressurization system exhaust. The results of the samples are summarized and compared to WDNR standards on the attached **Table 1**. The laboratory report that relates to the samples are also attached.

As listed on the attached table, PCE was detected in basement samples 6348-105-IA-B and 6348-107-IA-B at concentrations of 36.4 and 10.5 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), respectively. These PCE concentrations are *well below* the WDNR's vapor action level (VAL) for small commercial buildings of $180 \mu\text{g}/\text{m}^3$. No other chemicals of concern were detected in the indoor air samples. Soil gas sample 6348-EP-2 from the sub-slab depressurization system contained PCE at a concentration of $2,070 \mu\text{g}/\text{m}^3$, and trichloroethene at $69.3 \mu\text{g}/\text{m}^3$.

Document: 6348-0917

The concentrations of PCE in the basement air samples are below the VAL for the third consecutive sampling event. These results demonstrate that the basement sub-slab depressurization system and remediation at the Harborview Cleaners property has reduced the vapor intrusion risk in your building.

We will contact you regarding any future sampling activities in the building. If you have any questions or would like us to discuss these results with you, please contact me at 262-290-4001 or by email at bkappen@enviroforensics.com. The WDNR project manager, John Feeney, can be reached at 920-893-8523. We greatly appreciate your help and patience with this matter.

Sincerely,
EnviroForensics, LLC

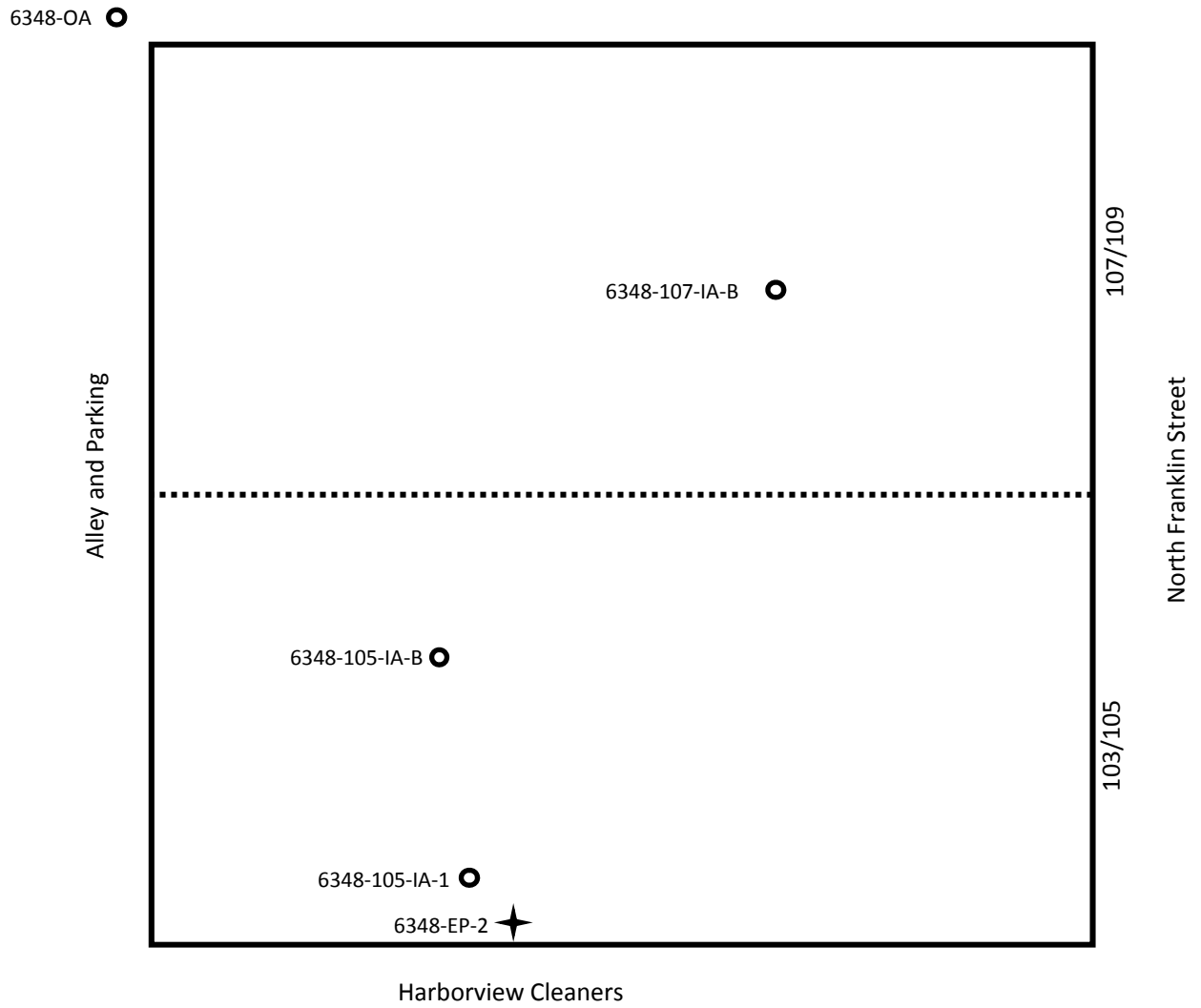
A handwritten signature in blue ink, appearing to read "Brian Kappen".

Brian Kappen, PG
Project Manager

Attachments: Vapor Intrusion Sample Locations Figure
Sample Results Summary Table
Laboratory Analytical Report

Copy: John Feeney, Wisconsin Department of Natural Resources

VAPOR INTRUSION SAMPLE LOCATIONS
105 through 107 N. Franklin Street, Port Washington, Wisconsin



Legend

○ Indoor/Outdoor Air Sample

★ Sub-Slab Vapor Sample

IA-B = Basement

IA-1 = 1st Floor



TABLE 1
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY - 105-107 NORTH FRANKLIN STREET

Harborview Cleaners
 134 E. Grand Avenue
 Port Washington, Wisconsin

| Sample Identification | Sample Location | Sample Date | Mitigation | Tetrachloroethene | Trichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Vinyl Chloride |
|--|--------------------------|-------------|------------|-------------------|-----------------|------------------------|--------------------------|----------------|
| INDOOR/OUTDOOR AIR | | | | | | | | |
| Small Commercial Vapor Action Level | | | | 180 | 8.8 | NE | NE | 28 |
| 6348-OA | Outdoor | 12/2/2015 | Pre | 5.22 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 1/13/2016 | Pre | 4.75 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 5/24/2016 | Post | 6.92 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 11/2/2016 | Post | 16.90 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 8/8/2017 | Post | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/27/2018 | Post | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/15/2019 | Post | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 9/26/2019 | Post | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/18/2020 | Post | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| 6348-105-IA-B | Basement | 12/2/2015 | Pre | 852 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 1/13/2016 | Pre | 1,130 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 5/24/2016 | Post | 4,260 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 11/2/2016 | Post | 402 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 8/8/2017 | Post | 303 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/27/2018 | Post | 324 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/15/2019 | Post | 41.8 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 9/26/2019 | Post | 30.4 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/18/2020 | Post | 36.4 | <1.07 | <19.8 | <39.6 | <1.28 |
| 6348-107-IA-B | Basement | 12/2/2015 | Pre | 265 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 1/13/2016 | Pre | 504 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 5/24/2016 | Post | 1,420 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 11/2/2016 | Post | 188 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 8/8/2017 | Post | 165 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/27/2018 | Post | 13.5 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/15/2019 | Post | 9.09 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 9/26/2019 | Post | 6.85 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/18/2020 | Post | 10.5 | <1.07 | <19.8 | <39.6 | <1.28 |
| 6348-105/107-IA-1 | 1st Floor | 12/2/2015 | Pre | 199 | <1.07 | <19.8 | <39.6 | <1.28 |
| 6348-105-IA-1 | 1st Floor | 1/13/2016 | Pre | 296 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 5/24/2016 | Post | 1,480 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 11/2/2016 | Post | 277 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 8/8/2017 | Post | 132 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/27/2018 | Post | 53.0 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/15/2019 | Post | 13.2 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 9/26/2019 | Post | 13.9 | <1.07 | <19.8 | <39.6 | <1.28 |
| 6348-107-IA-1 | 1st Floor | 1/13/2016 | Pre | 178 | <1.07 | <3.96 | <3.96 | <0.64 |
| SUB-SLAB VAPOR | | | | | | | | |
| Small Commercial Vapor Risk Screening Level | | | | 6,000 | 293 | NE | NE | 933 |
| 6348-107-SSV-1 | Basement (Sub-Slab) | 12/3/2015 | Pre | 142 | <10.7 | <198 | <396 | <12.8 |
| | | 1/13/2016 | Pre | 326 | <10.7 | <39.6 | <39.6 | <6.4 |
| 6348-EP-2 | Basement (SSDS Effluent) | 11/2/2016 | Post | 4,480 | 107 | <39.6 | <39.6 | <6.4 |
| | | 8/8/2017 | Post | 317 | 146 | <198 | <396 | <12.8 |
| | | 2/27/2018 | Post | 120 | <10.7 | <198 | <396 | <12.8 |
| | | 2/15/2019 | Post | 52.9 | 317 | <198 | <396 | <12.8 |
| | | 9/26/2019 | Post | 158 | <10.7 | <198 | <396 | <12.8 |
| | | 2/18/2020 | Post | 2,070 | 69.3 | <198 | <396 | <12.8 |

Notes:

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

Samples analyzed according to EPA Method TO-15

The Vapor Risk Screening/Action Levels are calculated in accordance with WDNR Publication RR-800 and subsequent guidance documents.

NE = Screening/action level not established

SSDS = sub-slab depressurization system

Bolded values are above detection limits

Bolded and orange shaded values exceed the applicable screening or action level for small commercial buildings



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

February 25, 2020

EnvisionAir Project Number: 2020-117
Client Project Name: 6348 – Harborview Cleaners

Dear Mr. Kappen,

Please find the attached analytical report for the samples received February 20, 2020. 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 "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: 6348 HARBORVIEW CLEANERS
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2020-117

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>Date</u> | <u>Time</u> | | | | | | | <u>Collected:</u> |
| 20-564 | 6348-105-IA-B | A | 2/17/20 | 13:48 | 2/18/20 | 13:51 | 2/20/20 | 13:50 | -29 | -4 | -4 |
| 20-565 | 6348-107-IA-B | A | 2/17/20 | 14:13 | 2/18/20 | 14:11 | 2/20/20 | 13:50 | -29.5 | -1.5 | -1.5 |
| 20-567 | 6348-OA | A | 2/17/20 | 14:35 | 2/18/20 | 14:40 | 2/20/20 | 13:50 | -28.5 | -4.5 | -4.5 |
| 20-568 | 6348-EP-2 | A | 2/18/20 | 14:00 | | | 2/20/20 | 13:50 | -29 | -5 | -5 |



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Client Name: ENVIROFORENSICS
Project ID: 6348 HARBORVIEW CLEANERS
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2020-117

Analytical Method: TO-15
Analytical Batch: 021920AIR

Client Sample ID: 6348-105-IA-B
Envision Sample Number: 20-564
Sample Matrix: AIR

Sample Collection START Date/Time: 2/17/20 13:48
Sample Collection END Date/Time: 2/18/20 13:51
Sample Received Date/Time: 2/20/20 13:50

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | 36.4 | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 104% | | |
| Analysis Date/Time: | 2-21-20/08:42 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS
Project ID: 6348 HARBORVIEW CLEANERS
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2020-117

Analytical Method: TO-15
Analytical Batch: 021920AIR

Client Sample ID: 6348-107-IA-B
Envision Sample Number: 20-565
Sample Matrix: AIR

Sample Collection START Date/Time: 2/17/20 14:13
Sample Collection END Date/Time: 2/18/20 14:11
Sample Received Date/Time: 2/20/20 13:50

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | 10.5 | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 104% | | |
| Analysis Date/Time: | 2-21-20/09:16 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS
Project ID: 6348 HARBORVIEW CLEANERS
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2020-117

Analytical Method: TO-15
Analytical Batch: 021920AIR

Client Sample ID: 6348-OA
Envision Sample Number: 20-567
Sample Matrix: AIR

Sample Collection START Date/Time: 2/17/20 14:35
Sample Collection END Date/Time: 2/18/20 14:40
Sample Received Date/Time: 2/20/20 13:50

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | < 3.19 | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 104% | | |
| Analysis Date/Time: | 2-21-20/10:54 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS
Project ID: 6348 HARBORVIEW CLEANERS
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2020-117

Analytical Method: TO-15
Analytical Batch: 021920AIR

Client Sample ID: 6348-EP-2 **Sample Collection START Date/Time:** 2/18/20 14:00
Envision Sample Number: 20-568 **Sample Collection END Date/Time:**
Sample Matrix: AIR **Sample Received Date/Time:** 2/20/20 13:50

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| cis-1,2-Dichloroethene | < 198 | 198 | |
| Tetrachloroethene | 2,070 | 128 | 1 |
| trans-1,2-Dichloroethene | < 396 | 396 | |
| Trichloroethene | 69.3 | 10.7 | |
| Vinyl Chloride | < 12.8 | 12.8 | |
| 4-bromofluorobenzene (surrogate) | 95% | | |
| Analysis Date/Time: | 2-21-20/16:25 | | |
| Analyst Initials | tjg | | |

TO-15 Quality Control Data

EnvisionAir Batch Number: 021920AIR

| <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) | 107% | | |
| Analysis Date/Time: | 2-20-20/21:56 | | |
| Analyst Initials | tjg | | |

| <u>LCS/LCSD</u> | <u>LCS Results (ppbv)</u> | <u>LCSD Results (ppbv)</u> | <u>LCS/D Conc(ppbv)</u> | <u>LCS Rec.</u> | <u>LCSD Rec.</u> | <u>RPD</u> | <u>Flag</u> |
|----------------------------------|---------------------------|----------------------------|-------------------------|-----------------|------------------|------------|-------------|
| Vinyl Chloride | 10.2 | 10.6 | 10 | 102% | 106% | 3.8% | |
| trans-1,2-Dichloroethene | 10.5 | 10.1 | 10 | 105% | 101% | 3.9% | |
| cis-1,2-Dichloroethene | 10.1 | 9.89 | 10 | 101% | 99% | 2.1% | |
| Trichloroethene | 10.8 | 10.6 | 10 | 108% | 106% | 1.9% | |
| Tetrachloroethene | 9.84 | 9.63 | 10 | 98% | 96% | 2.2% | |
| 4-bromofluorobenzene (surrogate) | 94% | 94% | | | | | |
| Analysis Date/Time: | 2-20-20/20:16 | 2-20-20/20:52 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |



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Flag Number

1

Comments

Reported value is from a 40x dilution. TJG 2/24/20



February 26, 2020

Denise Snook
103 N. Franklin St.
Port Washington, WI 53074

Subject: Environmental Investigation Sampling Results
BRRTS#: 02-46-548092

Dear Ms. Snook:

In accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, EnviroForensics, LLC (EnviroForensics) is providing the results of environmental samples collected from your apartment located at 103 North Franklin Street in Port Washington, Wisconsin on February 17-18, 2020. The sampling activities are part of an environmental investigation being performed for the Harborview Cleaners facility located at 134 East Grand Avenue in Port Washington, Wisconsin at the direction of the WDNR. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

Sampling Results

One (1) indoor air sample designated 6348-103-IA was collected from your apartment. The results of the sample are summarized and compared to WDNR standards on the attached **Table 1**. The laboratory report that relates to the indoor air sample is also attached. As listed on the attached table, PCE was detected in the air sample at a concentration of 14.0 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), which is *well below* the vapor action level established by WDNR for residential settings of $42 \mu\text{g}/\text{m}^3$. No other chemicals of concern were detected in the air sample.

We would like to repeat the sampling later this year to confirm these results. I will contact you to arrange the next air sampling event, which is tentatively scheduled for August 2020. If you have any questions or would like to discuss these results, please contact me at 262-290-4001 or by email at bkappen@enviroforensics.com. The WDNR project manager, John Feeney, can be reached at 920-893-8523.

We greatly appreciate your help and patience with this matter.

Sincerely,
EnviroForensics, LLC



Brian Kappen, PG
Project Manager

Attachments: Sample Results Summary Table
Laboratory Analytical Report

Copy: John Feeney, Wisconsin Department of Natural Resources
Alphonse Uselding Jr.

TABLE 1
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY - 103 NORTH FRANKLIN STREET

Harborview Cleaners
 134 E. Grand Avenue
 Port Washington, Wisconsin

| Sample Identification | Sample Location | Sample Date | Mitigation | Tetrachloroethene | Trichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Vinyl Chloride |
|---------------------------------------|-----------------|-------------|------------|-------------------|-----------------|------------------------|--------------------------|----------------|
| Residential Vapor Action Level | | | | 42 | 2.1 | NE | NE | 1.7 |
| 6348-103-IA | 2nd Floor | 12/2/2015 | Pre | 288 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 1/13/2016 | Pre | 849 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 5/24/2016 | Post | 100 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 11/2/2016 | Post | 217 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 8/8/2017 | Post | 101 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/27/2018 | Post | 56.5 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/18/2020 | Post | 14.0 | <1.07 | <19.8 | <39.6 | <1.28 |

Notes:

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

Samples analyzed according to EPA Method TO-15

The Vapor Action Levels are calculated in accordance with WDNR Publication RR-800 and subsequent guidance documents.

Bolded values are above detection limits

Bolded and blue shaded values exceed the residential action level



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

February 25, 2020

EnvisionAir Project Number: 2020-115
Client Project Name: 6348 – Harborview Cleaners

Dear Mr. Kappen,

Please find the attached analytical report for the samples received February 20, 2020. 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 "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: 6348 HARBORVIEW CLEANERS
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2020-115

Sample Summary

Canister Pressure / Vacuum

| <u>Laboratory Sample Number:</u> | <u>Sample Description:</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> | |
| 20-562 | 6348-103-IA | A | 2/17/20 | 15:04 | 2/18/20 | 15:18 | 2/20/20 | 13:50 | -29 | -4 | -4 |



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Client Name: ENVIROFORENSICS
Project ID: 6348 HARBORVIEW CLEANERS
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2020-115

Analytical Method: TO-15
Analytical Batch: 021920AIR

Client Sample ID: 6348-103-IA **Sample Collection START Date/Time:** 2/17/20 15:04
Envision Sample Number: 20-562 **Sample Collection END Date/Time:** 2/18/20 15:18
Sample Matrix: AIR **Sample Received Date/Time:** 2/20/20 13:50

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | 14.0 | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 93% | | |
| Analysis Date/Time: | 2-21-20/09:49 | | |
| Analyst Initials | tjg | | |

TO-15 Quality Control Data

EnvisionAir Batch Number: 021920AIR

| <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) | 107% | | |
| Analysis Date/Time: | 2-20-20/21:56 | | |
| Analyst Initials | tjg | | |

| <u>LCS/LCSD</u> | <u>LCS Results (ppbv)</u> | <u>LCSD Results (ppbv)</u> | <u>LCS/D Conc(ppbv)</u> | <u>LCS Rec.</u> | <u>LCSD Rec.</u> | <u>RPD</u> | <u>Flag</u> |
|----------------------------------|---------------------------|----------------------------|-------------------------|-----------------|------------------|------------|-------------|
| Vinyl Chloride | 10.2 | 10.6 | 10 | 102% | 106% | 3.8% | |
| trans-1,2-Dichloroethene | 10.5 | 10.1 | 10 | 105% | 101% | 3.9% | |
| cis-1,2-Dichloroethene | 10.1 | 9.89 | 10 | 101% | 99% | 2.1% | |
| Trichloroethene | 10.8 | 10.6 | 10 | 108% | 106% | 1.9% | |
| Tetrachloroethene | 9.84 | 9.63 | 10 | 98% | 96% | 2.2% | |
| 4-bromofluorobenzene (surrogate) | 94% | 94% | | | | | |
| Analysis Date/Time: | 2-20-20/20:16 | 2-20-20/20:52 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |



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Flag Number

Comments



February 26, 2020

Travis Mantsch
109 N. Franklin St.
Port Washington, WI 53074

Subject: Environmental Investigation Sampling Results
BRRTS#: 02-46-548092

Dear Mr. Mantsch:

In accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, EnviroForensics, LLC (EnviroForensics) is providing the results of environmental samples collected from your apartment located at 109 North Franklin Street in Port Washington, Wisconsin on February 17-18, 2020. The sampling activities are part of an environmental investigation being performed for the Harborview Cleaners facility located at 134 East Grand Avenue in Port Washington, Wisconsin at the direction of the WDNR. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

Sampling Results

One (1) indoor air sample designated 6348-109-IA was collected from your apartment. The results of the sample are summarized and compared to WDNR standards on the attached **Table 1**. The laboratory report that relates to the indoor air sample is also attached. As listed on the attached table, PCE was detected in the air sample at a concentration of 5.63 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), which is *well below* the vapor action level established by WDNR for residential settings of $42 \mu\text{g}/\text{m}^3$. No other chemicals of concern were detected in the air sample.

We would like to repeat the sampling later this year to confirm these results. I will contact you to arrange the next air sampling event, which is tentatively scheduled for August 2020. If you have any questions or would like to discuss these results, please contact me at 262-290-4001 or by email at bkappen@enviroforensics.com. The WDNR project manager, John Feeney, can be reached at 920-893-8523.

We greatly appreciate your help and patience with this matter.

Sincerely,
EnviroForensics, LLC



Brian Kappen, PG
Project Manager

Attachments: Sample Results Summary Table
Laboratory Analytical Report

Copy: John Feeney, Wisconsin Department of Natural Resources
Alphonse Uselding Jr.

TABLE 1
VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY - 109 NORTH FRANKLIN STREET

Harborview Cleaners
 134 E. Grand Avenue
 Port Washington, Wisconsin

| Sample Identification | Sample Location | Sample Date | Mitigation | Tetrachloroethene | Trichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Vinyl Chloride |
|---------------------------------------|-----------------|-------------|------------|-------------------|-----------------|------------------------|--------------------------|----------------|
| Residential Vapor Action Level | | | | 42 | 2.1 | NE | NE | 1.7 |
| 6348-109-IA | 2nd Floor | 12/2/2015 | Pre | 88.0 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 1/13/2016 | Pre | 649 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 5/24/2016 | Post | 352 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 11/2/2016 | Post | 60.1 | <1.07 | <3.96 | <3.96 | <0.64 |
| | | 8/8/2017 | Post | 51.0 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 3/14/2019 | Post | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 2/18/2020 | Post | 5.63 | <1.07 | <19.8 | <39.6 | <1.28 |

Notes:

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

Samples analyzed according to EPA Method TO-15

The Vapor Action Levels are calculated in accordance with WDNR Publication RR-800 and subsequent guidance documents.

Bolded values are above detection limits

Bolded and blue shaded values exceed the residential action level



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

February 25, 2020

EnvisionAir Project Number: 2020-116
Client Project Name: 6348 – Harborview Cleaners

Dear Mr. Kappen,

Please find the attached analytical report for the samples received February 20, 2020. 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 "Stanley A. Hunnicutt".

Stanley A Hunnicutt

Project Manager
EnvisionAir, LLC



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Client Name: ENVIROFORENSICS
Project ID: 6348 HARBORVIEW CLEANERS
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2020-116

Sample Summary

Canister Pressure / Vacuum

| <u>Laboratory Sample Number:</u> | <u>Sample Description:</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> | |
| 20-563 | 6348-109-IA | A | 2/17/20 | 15:35 | 2/18/20 | 15:32 | 2/20/20 | 13:50 | -30 | -9 | -9 |



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Client Name: ENVIROFORENSICS
Project ID: 6348 HARBORVIEW CLEANERS
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2020-116

Analytical Method: TO-15
Analytical Batch: 021920AIR

Client Sample ID: 6348-109-IA **Sample Collection START Date/Time:** 2/17/20 15:35
Envision Sample Number: 20-563 **Sample Collection END Date/Time:** 2/18/20 15:32
Sample Matrix: AIR **Sample Received Date/Time:** 2/20/20 13:50

| <u>Compounds</u> | <u>Sample Results ug/m³</u> | <u>Reporting Limit ug/m³</u> | <u>Flag</u> |
|----------------------------------|--|---|-------------|
| cis-1,2-Dichloroethene | < 19.8 | 19.8 | |
| Tetrachloroethene | 5.63 | 3.19 | |
| trans-1,2-Dichloroethene | < 39.6 | 39.6 | |
| Trichloroethene | < 1.07 | 1.07 | |
| Vinyl Chloride | < 1.28 | 1.28 | |
| 4-bromofluorobenzene (surrogate) | 102% | | |
| Analysis Date/Time: | 2-21-20/10:22 | | |
| Analyst Initials | tjg | | |

TO-15 Quality Control Data

EnvisionAir Batch Number: 021920AIR

| <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) | 107% | | |
| Analysis Date/Time: | 2-20-20/21:56 | | |
| Analyst Initials | tjg | | |

| <u>LCS/LCSD</u> | <u>LCS Results (ppbv)</u> | <u>LCSD Results (ppbv)</u> | <u>LCS/D Conc(ppbv)</u> | <u>LCS Rec.</u> | <u>LCSD Rec.</u> | <u>RPD</u> | <u>Flag</u> |
|----------------------------------|---------------------------|----------------------------|-------------------------|-----------------|------------------|------------|-------------|
| Vinyl Chloride | 10.2 | 10.6 | 10 | 102% | 106% | 3.8% | |
| trans-1,2-Dichloroethene | 10.5 | 10.1 | 10 | 105% | 101% | 3.9% | |
| cis-1,2-Dichloroethene | 10.1 | 9.89 | 10 | 101% | 99% | 2.1% | |
| Trichloroethene | 10.8 | 10.6 | 10 | 108% | 106% | 1.9% | |
| Tetrachloroethene | 9.84 | 9.63 | 10 | 98% | 96% | 2.2% | |
| 4-bromofluorobenzene (surrogate) | 94% | 94% | | | | | |
| Analysis Date/Time: | 2-20-20/20:16 | 2-20-20/20:52 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |



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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: <u>EnviroForensics</u> | P.O. Number: <u>2020-1317</u> |
| Report Address: <u>bkappen@enviroforensics.com</u> | Project Name or Number: <u>6348 Harborview Cleaners</u> |
| Report To: <u>B. Kappen</u> | Sampled by: <u>B. Kappen</u> |
| Phone: <u>262-290-4001</u> | QA/QC Required: (circle if applicable) Level III <u>Level IV</u> |
| Invoice Address: <u>accounts payable @ enviroforensics.com</u> | Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV |
| Desired TAT: (Please Circle One) <u>1 day</u> 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 (Specify in notes)



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 |
|---------------|---|--|--|--|--|--|--|--|-------------------|--------------------------|------------------------|----------------------|-----------------------|---------------------------|
| 6348-109-IA | 6LC | 2/17/20 | 1535 | 2/18/20 | 1532 | | | | 4694 | 02231 | -30 | -9 | -9 | 20-563 |
| | | | | | | | | | | | | | | |
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Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|------------------|---------|------|---------------------|---------|------|
| <u>B. J. My</u> | 2/19/20 | 1630 | <u>FedEx</u> | 2/19/20 | 1630 |
| | | | <u>Frank Hummer</u> | 2/20/20 | 1350 |