

March 17, 2021

Jennifer Schkirkie 105 Warren Street Portage, WI 53901

Subject: Vapor Intrusion Sampling Results – 105 Warren Street, Portage, Wisconsin

BRRTS: 02-11-512824

Dear Ms. Schkirkie:

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, EnviroForensics, LLC. (EnviroForensics) is providing the results of environmental samples collected from your property located at 105 Warren Street in Portage, Wisconsin. The samples were collected on March 2-3, 2021. The sampling activities are part of an environmental investigation being performed for the Portage Cleaners facility located at 104 West Wisconsin Street in Portage 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:

Portage Cleaners 104 West Wisconsin Street Portage, WI

Sampling Results

Two indoor air samples designated 6493-105 Warren-IA-B and 6493-105 Warren-IA-1 were collected from within the basement and first floor, respectively. For quality control purposes a sample of outdoor ambient air designated 6493-105 Warren-OA-1 was collected. Additionally, one (1) sub-slab vapor sample designated 6493-105 Warren-SSV-1 was collected from beneath the basement floor of your building. The sampling locations are depicted on the attached **Figure 1**. The results of the vapor samples are summarized and compared to WDNR standards on the attached **Table 1** with the previous results. A copy of the laboratory report that relates to the vapor samples is also attached.

Document: 6493-0246 EnviroForensics, LLC

N16 W23390 Stone Ridge Drive, Suite G

Waukesha, WI 53188

Phone: 262-290-4001 • Fax 317.972.7875

March 17, 2021



PCE was detected in the sub-slab vapor sample, but at a concentration below the Vapor Risk Screening Level (VRSL). No other compounds were detected in the sub-slab sample. The indoor air results did not contain any compounds of concern.

Mitigation of potential vapors at your property is *not* necessary and we do *not* recommend any further testing. If you have any questions or concerns, please contact us at 262-510-0612 or by email at <u>rhoverman@enviroforensics.com</u>. The WDNR project manager, Larry Lester, can be reached at 608-275-3465. We greatly appreciate your help and patience with this matter.

Sincerely,

EnviroForensics, LLC

Rob Hoverman, LPG

Senior Project Manager

Rebecca Brown

Field Professional

Attachments: Figure 1 – Vapor Intrusion Sampling Locations

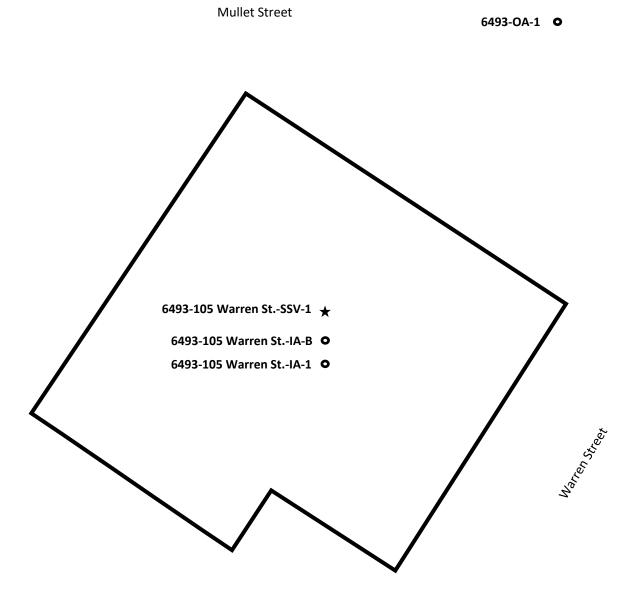
Table 1 – Vapor Intrusion Assessment Results Summary

Laboratory Analytical Report

Copy: Larry Lester, Wisconsin Department of Natural Resources

Document: 6493-0246 March 17, 2021

FIGURE 1 VAPOR INTRUSION SAMPLE LOCATIONS 105 Warren Street, Portage Wisconsin



<u>Legend</u>

• = Indoor/Outdoor Air Sample

IA-B = Basement

IA-1 = 1st Floor

SSV-1 = Sub-Slab Vapor

★ = Sub-Slab Vapor Sampling Port Location





TABLE 1 VAPOR INTRUSION ASSESSMENT ANALYTICAL RESULTS

Portage Cleaners 104 E. Wisconsin St Portage, WI 53901

| Sample Address | Sample Identification | Sample Date | Applicable Criteria | Mitigation | Tetrachloroethene | Trichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethen | Vinyl chloride |
|-------------------|--------------------------|----------------------|------------------------|------------|-------------------|-------------------|------------------------|-------------------------|----------------|
| | | | INDOOR/OUTD | OOR AIR | | | | | |
| | Residential Vapor | Action Limit | t ² | | 42 | 2.1 | NE | NE | 1.7 |
| | Small Commercial Var | | imit [†] | | 180 | 8.8 | NE | NE | 28 |
| | | 09/07/17 | | | <3.19 | 55.3 | <19.8 | <39.6 | <1.28 |
| | (400 105 W) G. T. D. | 12/06/17 | | | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | 6493-105 Warren St-IA-B | 09/30/20 | Residential | No | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 1/25/2021 | | | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 3/3/2021 | | | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 09/07/17 12/06/17 | | | <3.19 | 76.4 <1.07 | <19.8 <19.8 | <39.6 <39.6 | <1.28 <1.28 |
| 105 Warren St. | 6493-105 Warren St-IA-1 | 09/30/20 | Residential | No | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| 105 warren st. | 0493-103 Warren St-1A-1 | 1/25/2021 | Residentiai | INO | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 3/3/2021 | | | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 09/07/17 | | | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 12/06/17 | | | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | 6493-OA-1 | 09/30/20 | Residential | No | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 1/25/2021 | | | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 3/3/2021 | | | <3.19 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | | SUB-SLAB V | APOR | | | | | |
| | Residential Vapor Risk | Screening I | evel ² | | 1,400 | 70 | NE | NE | 57 |
| | Small Commercial Vapor I | Risk Screenii | ng Level 1 | | 6,000 | 290 | NE | NE | 930 |
| | | 9/7/2017 | | | 10.9 | 3.28 | <19.8 | <39.6 | <1.28 |
| | | 12/6/2017 | | | 50.9 | <10.7 | <198 | <396 | <12.8 |
| 105 Warren St. | 6493-105 Warren St-SSV-1 | 9/30/2020 | Residential | No | 25.2 | <10.7 | <198 | <396 | <12.8 |
| | | 1/26/2021 | | | 5.49 | <1.07 | <19.8 | <39.6 | <1.28 |
| | | 3/3/2021 | | | 13.4 | <1.07 | <19.8 | <39.6 | <1.28 |

Notes

¹ The vapor risk screeing levels for small commercial structures are calculated in accordance with the procedures described in WDNR Publication RR-800 and subsequent guidance

² The vapor risk screeing levels for residential structures are calculated in accordance with the procedures described in WDNR Publication RR-800 and subsequent guidance

Samples analyzed according to EPA Method TO-15

All concentrations reported in units in micrograms per cubic meter = $\mu g/m3$

Only detected compounds are listed

Bolded values are above method detection limits

Bolded and blue shaded values exceed the residential Vapor Risk Screening Level

Bolded and orange shaded values exceed the small commercial Vapor Risk Screening Level

NE = Not Established

IA = Indoor Air

OA = Outdoor Air





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

Mr. Rob Hoverman Enviroforensics N16 W. 23390 Stone Ridge Dr Suite G Waukesha, WI 53188

March 9, 2021

EnvisionAir Project Number: 2021-120

Client Project Name: 6493 – Portage Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received March 4, 2021. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

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

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

Yours Sincerely,

Stanley A Hunnicutt

Stanly O. Thurnicutt

Project Manager EnvisionAir, LLC



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www.envision-air.com

Client Name: ENVIROFORENSICS

Project ID: 6493 PORTAGE CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2021-120

Sample Summary

Canister Pressure / Vacuum

| | | | START | START | | | | | | | <u>Lab</u> |
|---------------------------|--------------------------|---------|------------|------------|------------|------------|-----------|----------|---------------|-------------|------------|
| | | | Date | Time | End Date | End Time | Date | Time | Initial Field | Final Field | Received |
| Laboratory Sample Number: | Sample Description: | Matrix: | Collected: | Collected: | Collected: | Collected: | Received: | Received | (in. Hg) | (in. Hg) | (in. Hg) |
| 21-631 | 6493-105 WARREN ST-IA-B | Α | 3/2/21 | 10:00 | 3/3/21 | 10:00 | 3/4/21 | 15:30 | -29 | 0 | 0 |
| 21-632 | 6493-105 WARREN ST-IA-1 | Α | 3/2/21 | 9:59 | 3/3/21 | 9:58 | 3/4/21 | 15:30 | -27 | -4 | -4 |
| 21-633 | 6493-OA-1 | Α | 3/2/21 | 9:55 | 3/3/21 | 9:53 | 3/4/21 | 15:30 | -29 | 0 | 0 |
| 21-634 | 6493-105 WARREN ST-SSV-1 | Α | 3/3/21 | 10:02 | 3/3/21 | 10:10 | 3/4/21 | 15:30 | -30 | -5 | -5 |



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Client Name: ENVIROFORENSICS

Project ID: 6493 PORTAGE CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2021-120

Analytical Method: TO-15
Analytical Batch: 030221AIR

6493-105 WARREN ST-

Client Sample ID: IA-B Sample Collection START Date/Time: 3/2/21 10:00

Sample Collection END Date/Time: 3/3/21 10:00

EnvisionAir Sample Number: 21-631 **Sample Received Date/Time:** 3/4/21 15:30

Sample Matrix: AIR

| <u>Compounds</u> | Sample Results ug/m ³ | Reporting Limit ug/m ³ | <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 (surro | ogate) 98% | | |
| Analysis Date/Time: | 3-5-21/04:36 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS

Project ID: 6493 PORTAGE CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2021-120

Analytical Method: TO-15 **Analytical Batch:** 030221AIR

6493-105 WARREN ST-

Client Sample ID: IA-1 Sample Collection START Date/Time: 3/2/21 9:59 Sample Collection END Date/Time: 3/3/21 9:58

Sample Received Date/Time: 3/4/21 15:30

EnvisionAir Sample Number: 21-632

Sample Matrix: AIR

| <u>Compounds</u> | Sample Results ug/m ³ | Reporting Limit ug/m ³ | <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 (surrog | jate) 107% | | |
| Analysis Date/Time: | 3-5-21/05:17 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS

Project ID: 6493 PORTAGE CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2021-120

Analytical Method: TO-15 **Analytical Batch:** 030221AIR

Client Sample ID: 6493-OA-1 Sample Collection START Date/Time: 3/2/21 9:55

> Sample Collection END Date/Time: 3/3/21 9:53 Sample Received Date/Time: 3/4/21 15:30

EnvisionAir Sample Number: 21-633

Sample Matrix: AIR

| Compounds | Sample Results ug/m ³ | Reporting Limit ug/m ³ | <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 (surro | gate) 91% | | |
| Analysis Date/Time: | 3-5-21/06:39 | | |
| Analyst Initials | tjg | | |



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Client Name: ENVIROFORENSICS

Project ID: 6493 PORTAGE CLEANERS

Client Project Manager: ROB HOVERMAN

EnvisionAir Project Number: 2021-120

Analytical Method: TO-15
Analytical Batch: 030721AIR

6493-105 WARRANT

21-634

Client Sample ID: ST-SSV-1 Sample Collection START Date/Time: 3/3/21 10:02 Sample Collection END Date/Time: 3/3/21 10:10

Sample Received Date/Time: 3/4/21 15:30

Sample Matrix: AIR

EnvisionAir Sample Number:

Reporting Limit ug/m³ Sample Results ug/m³ Compounds **Flag** cis-1,2-Dichloroethene < 19.8 19.8 Tetrachloroethene 13.4 3.19 trans-1,2-Dichloroethene < 39.6 39.6 Trichloroethene < 1.07 1.07 Vinyl Chloride < 1.28 1.28 4-bromofluorobenzene (surrogate) 100% Analysis Date/Time: 3-7-21/11:47 Analyst Initials tjg



Analytical Report

EnvisionAir

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TO-15 Quality Control Data

EnvisionAir Batch Number: 030221AIR

| Method Blank (MB): | MB Results (ppbv) | Reporting Limit (ppbv) | <u>Flags</u> |
|----------------------------------|-------------------|------------------------|--------------|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| Tetrachloroethene | < 0.47 | 0.47 | |
| trans-1,2-Dichloroethene | < 10 | 10 | |
| Trichlorethene | < 0.2 | 0.2 | |
| Vinyl Chloride | < 0.5 | 0.5 | |
| 4-bromofluorobenzene (surrogate) | 97% | | |
| Analysis Date/Time: | 3-4-21/16:39 | | |
| Analyst Initials | tjg | | |

| | | | LCS/D | LCS | LCSD | | |
|----------------------------------|--------------------|---------------------|------------|------|------|------------|-------------|
| LCS/LCSD | LCS Results (ppbv) | LCSD Results (ppbv) | Conc(ppbv) | Rec. | Rec. | <u>RPD</u> | <u>Flag</u> |
| Vinyl Chloride | 9.55 | 9.03 | 10 | 96% | 90% | 5.6% | |
| trans-1,2-Dichloroethene | 10 | 9.73 | 10 | 100% | 97% | 2.7% | |
| cis-1,2-Dichloroethene | 10.3 | 9.22 | 10 | 103% | 92% | 11.1% | |
| Trichloroethene | 10 | 10.2 | 10 | 100% | 102% | 2.0% | |
| Tetrachloroethene | 9.86 | 9.56 | 10 | 99% | 96% | 3.1% | |
| 4-bromofluorobenzene (surrogate) | 98% | 100% | | | | | |
| Analysis Date/Time: | 3-4-21/15:16 | 3-4-21/16:03 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |



Analytical Report

EnvisionAir

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

TO-15 Quality Control Data

EnvisionAir Batch Number: 030721AIR

| Method Blank (MB): | MB Results (ppbv) | Reporting Limit (ppbv) | <u>Flags</u> |
|----------------------------------|-------------------|------------------------|--------------|
| cis-1,2-Dichloroethene | < 5 | 5 | |
| Tetrachloroethene | < 0.47 | 0.47 | |
| trans-1,2-Dichloroethene | < 10 | 10 | |
| Trichlorethene | < 0.2 | 0.2 | |
| Vinyl Chloride | < 0.5 | 0.5 | |
| 4-bromofluorobenzene (surrogate) | 107% | | |
| Analysis Date/Time: | 3-7-21/11:09 | | |
| Analyst Initials | tjg | | |

| | | | LCS/D | LCS | LCSD | | |
|----------------------------------|--------------------|---------------------|------------|------|------|------|------|
| LCS/LCSD | LCS Results (ppbv) | LCSD Results (ppbv) | Conc(ppbv) | Rec. | Rec. | RPD | Flag |
| Vinyl Chloride | 10.6 | 10.2 | 10 | 106% | 102% | 3.8% | |
| trans-1,2-Dichloroethene | 9.9 | 9.89 | 10 | 99% | 99% | 0.1% | |
| cis-1,2-Dichloroethene | 9.75 | 9.27 | 10 | 98% | 93% | 5.0% | |
| Trichloroethene | 9.13 | 9.45 | 10 | 91% | 95% | 3.4% | |
| Tetrachloroethene | 9.31 | 9.61 | 10 | 93% | 96% | 3.2% | |
| 4-bromofluorobenzene (surrogate) | 97% | 103% | | | | | |
| Analysis Date/Time: | 3-7-21/09:44 | 3-7-21/10:31 | | | | | |
| Analyst Initials | tjg | tjg | | | | | |



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

Flag Number Comments

CHAIN OF CUSTODY RECORD

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

| Client: | P.O. | P.O. Number: 7 | D-170 | 210 | | | | | F | | | |
|--|-------------------------|--------------------|---|---------------|----------|---------------|----------------------|-----------------------|------------------------------|---|-----------------------------|------------------------------|
| Report Phover Mance Address: Chymyforensics .com | - | ject Name or | Number: (| 643 | | REQUI | REQUESTED PARAMETERS | ETERS | | | | |
| Report To: R Ho Promov | C | Sampled by: K | BROT | 5 | | \ | n in S | | Y | | 010 | DIVIND |
| Phone: 762-290-400 1 | | 2C Requirec | QA/QC Required: (circle if applicable) Level III Level IV | applicable) | | / | Tools I | / | | > | 2 | LINVISIONALL |
| Invoice Address: Accounts | | Reporting Units ne | eded: | de) PPMV | 1 | POUR TOUR | Sizi | Soil-Gas: | äl | | | |
| Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days) | - | | 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube | 9 | OI | EST-ON IST-ON | 1 / 55.53 | Indoor-Air: | Canister | WWW.envision- Canister Pressure / Vacuum | www.envision-air.com | no |
| Air Sample ID Media | Coll. Date (Grab/Comp | Coll. Time | Coll. Date | Coll. Time | | (coding | Canister Serial # | Controller Serial# | Initial Field (in. Hg) | Final Field (in. Hg) | Lab Received (in. Hg) | EnvisionAir Sample Number |
| 643-105 Warmen 3+ 6/C | 3-2-21 | | 10:003-3-21 | 10:00 | | × | 70191 | 7301 | 62- | Ø | D | 21-631 |
| 54-TA-1 | _ | 9:59 | - | 85:6 | | _ | 17894 | 12451 | 乜 | 7- | 1 | 21-632 |
| (495-0A-1 × | 7 | 9:55 | > | 9:53 | | | 91568 | 7674 | 52- | Ø | Ø | 21-633 |
| 54-55V-1 | 333 | 33-21 10:02 | 33.7 | (6:10 | | > | 188924 | 010/ | 8 | 5 | -5 | 21-634 |
| | | | | | | | | | | | | |
| | (| | | | | | | | | | | |
| Comments: Short 113 | 7 | F, TC | E, CU | CE, 41 | FDCE, VC | J NC | | | | | | |
| Relinquished by: | ed by: | | | Date | F | Time | Re | Received by: | | Date | 9 | Time |
| 7011 | | | 4 | 3-21 | 10.0 | 8 | Feel EX | Mummittee | - | 333 | 17 | 6:00 |
| | | | | | | - | strenn | fremmen | | 1616 | H | 1530 |