



January 25, 2023

Mr. Connor P. Mulcahy  
Remediation & Redevelopment Program  
Wisconsin Department of Natural Resources  
1027 W. St. Paul Ave  
Milwaukee, WI 53233

RE: WDNR Remedial Action Plan Implementation  
Peters Dry Cleaners  
5094 West College Avenue  
Greendale, Wisconsin  
FID # 341045210  
BRRTS # 02-41-284323

Dear Mr. Mulcahy:

EnviroForensics, LLC (EnviroForensics) is pleased to present this Remedial Action Plan for the Former Peters One Hour Cleaners located at 5094 West College Avenue, Greendale, Wisconsin (Site). The Site Plan is presented on **Figure 1**. The remedial action plan described below was approved by the Wisconsin Department of Natural Resources (WDNR) in an email dated August 12, 2022.

The following tasks were implemented to address the WDNR approved remedial action plan through the Dry Cleaner Environmental Repair Program (DERP):

1. **Groundwater Monitoring**
  - Two (2) groundwater monitoring events occurred on September 7 and December 21, 2022.
2. **Vapor Mitigation System Installation and Vapor Intrusion Sampling**
  - On November 22, 2022 an SSDS was installed at the Site by Protect Environmental.
  - A long term passive indoor air sample was collected from the Site building between December 1 and December 21, 2022.
  - Multiple pressure Readings were collected from vapor pins to demonstrate effectiveness

## 1.0 Monitoring Well Sampling

### Groundwater Sampling

Seven (7) wells (MW-5, MW-8, MW-9, MW-10, MW-11, MW-12 and PZ-1) were sampled for chlorinated volatile organic compounds (VOCs) during the September 2022 sampling event. During the December event six (6) wells were sampled for VOCs (MW-5, MW-8, MW-9, MW-10, MW-11, MW-12). Each well was opened and allowed to vent for at least 15 minutes, then the depth to water in each well was measured to the nearest 0.01 of a foot using an electronic water level indicator. Each monitoring well was purged and sampled using a new disposable bailer. Monitoring well construction data and depth to water measurements are presented in **Tables 1 and 2** respectively.

One (1) duplicate groundwater sample and one (1) trip blank sample were analyzed for QA/QC purposes. The groundwater and QA/QC samples were submitted using appropriate chain-of-custody documentation to Pace Analytical VOC analysis using the United States (U.S.) Environmental protection Agency (EPA) SW-846 Method 8260. Samples from select wells, were collected for the following monitored natural attenuation (MNA) parameters: ethane, methane, dissolved iron, dissolved manganese, total iron, total, manganese, nitrate plus nitrite, sulfate, chloride and total organic carbon. The chain-of-custody document is provided with the laboratory analytical report in **Attachment 1**.

Per the Milwaukee Metropolitan Sewer District allowable discharge limits, the non-hazardous purge water was discharged to the sanitary sewer on-site.

### Groundwater Results

The groundwater analytical results from the monitoring well samples are summarized and compared to WDNR standards in **Table 5** and in **Table 4** for MNA parameters. **Figure 2** presents the groundwater monitoring results. Samples from the MW-12 and PZ-1 did not contain PCE or breakdown products above the laboratory detection limits. Results from the existing wells were generally stable compared to previous results. The laboratory reports related to the groundwater samples are provided in **Attachment 1**.

The contaminant plume in groundwater is also defined, and generally follows the groundwater flow direction which is westerly on-Site and then following the dipping elevation of 51<sup>st</sup> Street to the north. A groundwater potentiometric surface map is presented on **Figure 3**. In general, the presence of TCE, cis-1,2-DCE, trans-1,2-DCE and vinyl chloride in all impacted wells demonstrate that the plume is decreasing and naturally attenuating.

Groundwater impacts exceed Public Health Enforcement Standards (ESs) on-Site and under South 51<sup>st</sup> Street, west of the Site, but do not exceed ESs on the adjacent properties to the north and west of the Site. On-Site water use is from the municipal supply, and no direct contact with groundwater impacts or ingestion is occurring. The source of contaminants was past dry cleaning operations, which were discontinued in approximately 1986. That means the plume was likely to the extent we observe today and there is no evidence the plume is expanding.

The mere presence of breakdown products, including vinyl chloride, would indicate that reductive dechlorination has occurred and is likely still occurring at this site. In some of the wells it is over 75% breakdown products to parent product ratio.

In general, the MNA data is contradictory to the observed breakdown and decreasing trends in groundwater. For instance, the dissolved oxygen and ORP values appear to be erroneous. Many of the dissolved oxygen (DO) readings are elevated and the oxygen reduction potential (ORP) values are quite positive. That would make sense, except we are seeing methane and dissolved iron. Dissolved iron would be very minimal in an oxidated environment and methane would be non-existent. The fact that you had some DHC counts (although not great) at the same time as high DO and ORP seems erroneous. This is not the type of environment that these DHC bacteria would live in. The methane and the dissolved iron make me think the environment is more reduced than it might seem and that the DO and ORP readings are wrong.

In general, it would seem that ERD is occurring as indicated by the presence of DHC bacteria, breakdown products of PCE, production of methane are indicative, and overall decreasing concentrations of PCE.

## **2.0 Vapor Mitigation System Installation and Monitoring**

### *Sub-slab Depressurization System Installation*

On November 22, 2022 a sub-slab depressurization system (SSDS) was installed by Protect Environmental. The VMS Installation Report in **Attachment 2** describes the mitigation system in detail. There is one extraction point and four (4) permanent vapor pins within the Site building as shown on **Figure 4**

Annual operation and maintenance (O&M) will be performed on the SSDS system by the Site owner. This will include observing the fan operation, integrity of the extraction point, the differential pressure, vent pipe condition, foundation integrity, and testing of sub-slab pressure,

if needed. **Attachment 3** presents the O&M Plan and log for recording annual inspections, which shall be submitted to the WDNR upon completion.

#### Sanitary Sewer Vapor

To fulfill the conditions of the Remedial Action Plan approval, EnviroForensics conducted vapor analysis in two manholes, one from within the Site boundary and one further downstream at a location where the sewer main tees into another sewer trunk directly adjacent to a residential home. **Figure 5** and **Table 5** present the sample locations and results, respectively. Samples were collected in Summa canisters according to WDNR Publication RR-649. Both samples were non-detect for the chlorinated VOC target compounds. This would indicate the man-made pathway is not a potential conduit for contaminant migrations and no further assessment is warranted.

#### Commissioning

To confirm the SSDS's effectiveness, pressure readings were collected from the extraction location, four permanent vapor pins, and a temporary point that was sealed, and an effluent sample from the SSDS using a SUMMA canister was collected. The canister was analyzed using EPA Method TO-15 for VOCs, and the analytical report is attached. A long-term passive indoor air was collected between December 1 and December 21, 2022, the samples were analyzed using EPA Method TO-17. **Attachment 1** presents the laboratory analytical reports is attached. **Figure 4** shows the system layout and data collection points. **Table 6** presents the data from commissioning measurements.

The commissioning data with the pressure field data collected during the installation indicates there is favorable communication below the slab from the extraction point. While it is not ideal, these systems are anticipated to improve over time. The longer duration indoor air sample also indicates the indoor air concentrations have decreased. Because the system is treating the most affected area in the subsurface, we consider the mitigation complete and sufficient to achieve the intended preventative goals for the Site.

### **3.0 CONCLUSIONS**

Groundwater monitoring shows concentrations to be stable to decreasing with favorable conditions indicating natural attenuation is occurring. The SSDS was installed on November 22, 2022 as a cost effective preventative measure near the highest contamination in the soil. Annual operation and maintenance of the SSDS will be completed by the Site owner. Additional groundwater monitoring was proposed when active remediation was planned. Therefore, with continued operation of the vapor mitigation system, it is recommended for the Site to move to closure.



We appreciate the opportunity to provide this Site Investigation Update and look forward to continuing to work with you on this project. If you have any questions or require additional information, please don't hesitate to contact us at 262-290-4001.

Sincerely,  
**EnviroForensics, LLC**

A handwritten signature in blue ink, appearing to read "Rob Hoverman".

Rob Hoverman, LPG  
Senior Project Manager  
[rhoverman@enviroforensics.com](mailto:rhoverman@enviroforensics.com)

Cc: Richard Peters

**Figures**

- Figure 1: Site Plan
- Figure 2: Groundwater Analytical Results
- Figure 3: Groundwater Potentiometric Surface Map
- Figure 4: Sub-Slab Depressurization Layout
- Figure 5: Sanitary Sewer Gas Analytical Results Map

**Tables**

- Table 1:
- Table 2: Groundwater Elevation Data
- Table 3: Monitoring Well Sample Analytical Results
- Table 4: Monitored Natural Attenuation Data
- Table 5: Vapor Intrusion Analytical Data
- Table 5: Commissioning Measurements

**Attachments**

- Attachment 1: Laboratory Analytical Results
- Attachment 2: Vapor Mitigation Installation Report
- Attachment 3: Maintenance Plan and Log

## TABLES

**TABLE 1**  
**MONITORING WELL CONSTRUCTION DETAILS**

Former Peters Dry Cleaners  
5094 College Avenue, Greendale, Wisconsin

Well ID	Date Installed	Consultant	Well Diameter (inches)	Northing	Easting	Ground Elevation (feet AMSL)	TOC Elevation (feet AMSL)	Top Screen Elevation (feet AMSL)	Bottom Screen Elevation (feet AMSL)	Screened Interval (feet bgs)	Total Depth (feet bgs)
MW-1	NA	Giles Engineering Associates, Inc.	2	345,861.59	2,541,354.12	778.73	778.32	765.7	755.7	13.0 - 23.0	23.0
MW-2	NA		2	345,861.10	2,541,304.92	777.20	776.71	767.2	757.2	10.0 - 20.0	20.0
MW-3	NA		2	345,906.47	2,541,331.05	776.82	776.46	766.5	756.5	10.3 - 20.3	20.3
MW-4	NA		2	345,890.78	2,541,339.93	777.40	777.25	767.4	757.4	10.1 - 20.1	20.1
MW-5	11/5/2014	EnviroForensics	2	345,845.44	2,541,350.18	777.52	777.09	772.4	762.4	5.2 - 15.2	15.2
MW-6	11/5/2014		2	345827.75	2,541,396.76	778.71	778.28	NA	NA	5.6 - 15.6	15.6
MW-7	11/5/2014		2	345,776.66	2,541,397.15	778.58	778.20	773.8	763.8	4.8 - 14.8	14.8
MW-8	8/7/2015		2	345,840.76	2,541,234.62	774.68	774.13	768.7	758.7	6.0 - 16.0	16.0
MW-9	8/7/2015		2	345,834.86	2,541,280.59	775.47	775.11	767.5	757.5	8.0 - 18.0	18.0
MW-10	1/22/2016		2	345,881.81	2,541,235.01	774.48	774.11	769.5	759.5	5.0 - 15.0	15.0
MW-11	1/22/2016		2	345,893.20	2,541,160.50	772.29	771.94	766.8	756.8	5.5 - 15.5	15.5
MW-12	12/13/2019		2	345,994.16	2,541,114.42	764.48	763.90	759.5	749.5	5.0 - 15.0	15.0
PZ-1	12/13/2019		2	345,829.10	2,541,324.73	777.09	776.75	752.1	747.1	25.0 - 30.0	30.0

**Notes:**

Coordinates are referenced to Wisconsin State Plane, NAD 27, Southern Zone

Surveying performed by Surveying Associates, Inc.

AMSL = above mean sea level

bgs = below ground surface

NA = Not Available

TOC = top of casing

Monitoring well abandoned on January 2, 2020

**TABLE 2**  
**GROUNDWATER ELEVATION DATA**

Former Peters Dry Cleaners  
5094 College Avenue, Greendale, Wisconsin

Well ID	Date	TOC Elevation (AMSL)	Depth to Water (feet below TOC)	Groundwater Elevation (AMSL)
MW-1	4/10/2014	778.32	7.86	770.46
	11/7/2014		4.20	774.12
	12/15/2014		4.73	773.59
	8/13/2015		4.25	774.07
	11/8/2016		Abandoned	
MW-2	4/10/2014	776.71	1.32	775.39
	11/7/2014		2.71	774.00
	12/15/2014		2.49	774.22
	8/13/2015		3.01	773.70
	11/8/2016		Abandoned	
MW-3	4/10/2014	776.46	1.97	774.49
	11/7/2014		2.51	773.95
	12/15/2014		0.53	775.93
	8/13/2015		2.20	774.26
	11/8/2016		Abandoned	
MW-4	4/10/2014	777.25	1.88	775.37
	11/7/2014		2.13	775.12
	12/15/2014		2.20	775.05
	8/13/2015		2.20	775.05
	11/8/2016		Abandoned	
MW-5	11/7/2014	777.09	12.70	764.39
	12/15/2014		2.12	774.97
	8/13/2015		2.78	774.31
	1/28/2016		4.96	772.13
	1/4/2017		2.56	774.53
	1/23/2017		2.28	774.81
	6/22/2017		2.24	774.85
	9/21/2017		3.82	773.27
	12/29/17		1.50	775.59
	1/2/2020		1.55	775.54
	9/7/2022		2.77	774.32
12/21/2022	2.92	774.17		
MW-6	11/7/2014	778.28	14.70	763.58
	12/15/2014		9.59	768.69
	8/13/2015		6.71	771.57
	1/28/2016		2.82	775.46
	6/22/2017		4.51	773.77
	9/21/2017		7.87	770.41
	12/29/2017		5.07	773.21
	1/2/2020		0.83	777.45
	9/7/2022		5.63	772.65
	12/21/2022		1.54	776.74
MW-7	11/7/2014	778.20	12.90	765.30
	12/15/2014		2.41	775.79
	8/13/2015		5.19	773.01
	1/28/2016		4.08	774.12
	6/22/2017		2.65	775.55
	9/21/2017		6.18	772.02
	12/29/2017		5.40	772.80
	1/2/2020		0.80	777.40
	9/7/2022		3.83	774.37
12/21/2022	3.04	775.16		
MW-8	8/13/2015	774.13	11.26	762.87
	1/28/2016		15.40	758.73
	1/4/2017		10.37	763.76
	6/22/2017		7.13	767.00
	9/21/2017		11.36	762.77
	12/29/2017		11.00	763.13
	1/2/2020		5.62	768.51
	9/7/2022		10.93	763.20
12/21/2022	9.65	764.48		

MW-9	8/13/2015	775.11	8.74	766.37
	1/28/2016		7.03	768.08
	1/4/2017		8.11	767.00
	6/22/2017		6.09	769.02
	9/21/2017		8.79	766.32
	12/29/2017		8.94	766.17
	1/2/2020		4.29	770.82
	9/7/2022		8.22	766.89
	12/21/2022		7.01	768.10
MW-10	1/28/2016	774.11	9.15	764.96
	6/22/2017		1.35	772.76
	9/21/2017		4.40	769.71
	12/29/2017		1.70	772.41
	1/2/2020		0.85	773.26
	9/7/2022		3.52	770.59
	12/21/2022		2.68	771.43
MW-11	1/28/2016	771.94	9.61	762.33
	1/4/2017		9.23	762.71
	6/22/2017		7.95	763.99
	9/21/2017		11.48	760.46
	12/29/2017		11.24	760.70
	1/2/2020		4.70	767.24
	9/7/2022		10.53	761.41
			12/21/2022	
MW-12	1/2/2020	763.90	0.33	763.57
	9/7/2022		3.74	760.16
	12/21/2022		0.63	763.27
PZ-1	1/2/2020	776.75	5.01	771.74
	9/7/2022		8.22	768.53
	12/21/2022		7.53	769.22

**Notes:**

TOC = Top of Casing

AMSL = Above Mean Sea Level

**TABLE 3**  
**MONITORING WELL SAMPLE ANALYTICAL RESULTS**

Former Peters Dry Cleaners  
5094 College Avenue, Greendale, Wisconsin

Monitoring Well ID	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
<b>Enforcement Standard</b>		<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>	<b>0.2</b>
<b>Preventative Action Limit</b>		<b>0.5</b>	<b>0.5</b>	<b>7</b>	<b>20</b>	<b>0.02</b>
MW-1	12/4/2013	<0.17	<0.19	<0.28	<0.28	<0.1
	4/10/2014	<0.33	<0.33	<0.38	<0.35	<0.18
	8/13/2015	<0.49	<0.47	<0.45	<0.54	<0.17
MW-2	6/21/2002	<b>1.81</b>	<b>3.33</b>	<b>5.35</b>	ND	ND
	12/4/2013	<0.17	<0.19	<0.12	<0.25	<0.1
	4/10/2014	<0.33	<0.33	<b>0.90 J</b>	<0.35	<0.18
MW-3	8/13/2015	<0.49	<0.47	<b>6.1</b>	<0.54	<0.17
	6/21/2002	ND	ND	ND	ND	ND
	4/10/2014	<b>2.67</b>	<0.33	<0.38	<0.35	<0.18
	8/13/2015	<b>1.7</b>	<0.47	<0.45	<0.54	<0.17
MW-4	8/5/2016	<b>1.35 J</b>	<0.47	<0.45	<0.54	<0.17
	6/21/2002	ND	ND	ND	ND	ND
	4/10/2014	<0.33	<0.33	<0.38	<0.35	<0.18
MW-5	8/13/2015	<0.49	<0.47	<0.45	<0.54	<0.17
	11/7/2014	<1.0	<1.0	<b>1.8</b>	<1.0	<1.0
	8/13/2015	<b>0.99 J</b>	<b>3.4</b>	<b>79</b>	<b>4.8</b>	<b>4.3</b>
	10/2/2015	<b>1.96</b>	<b>7.8</b>	<b>76</b>	<b>5.0</b>	<b>6.9</b>
	1/28/2016	<b>0.63 J</b>	<b>3.2</b>	<b>45</b>	<b>2.8</b>	<b>4.8</b>
	11/8/2016	<0.49	<b>3.14</b>	<b>33</b>	<b>2.59</b>	<0.17
	1/5/2017	<b>110</b>	<b>72</b>	<b>184</b>	<b>7.10</b>	<b>16.6</b>
	1/23/2017	<b>16.8</b>	<b>16.4</b>	<b>66</b>	<b>4.0</b>	<b>0.51 J</b>
	6/23/2017	<b>12.8</b>	<b>15.9</b>	<b>83</b>	<b>10.5</b>	<b>0.36</b>
	9/21/2017	<b>13</b>	<b>20.7</b>	<b>113</b>	<b>5.0</b>	<b>6.3</b>
	12/29/2017	<b>4.6</b>	<b>9.6</b>	<b>80</b>	<b>3.3</b>	<b>1.81</b>
	1/2/2020	<b>1.51</b>	<b>2.9</b>	<b>29</b>	<b>1.1</b>	<0.2
	9/7/2022	<b>2.2</b>	<b>2.5</b>	<b>34</b>	<b>1.2</b>	<b>3.0</b>
12/21/2022	<b>1.5</b>	<b>2.1</b>	<b>33.5</b>	<b>1.2</b>	<b>0.30 J</b>	
MW-6	12/3/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	8/13/2015	<0.49	<0.47	<0.45	<0.54	<0.17
	1/28/2016	<0.49	<0.47	<0.45	<0.54	<0.17
	6/22/2017	<0.48	<0.45	<0.41	<0.35	<0.19
	1/2/2020	<0.38	<0.3	<0.37	<0.34	<0.2
MW-7	11/7/2014	<1.0	<1.0	<1.0	<1.0	<1.0
	8/13/2015	<0.49	<0.47	<0.45	<0.54	<0.17
	1/28/2016	<0.49	<0.47	<0.45	<0.54	<0.17
	6/22/2017	<0.48	<0.45	<0.41	<0.35	<0.19
	1/2/2020	<0.38	<0.3	<0.37	<0.34	<0.2
MW-8	8/13/2015	<b>49</b>	<b>14.8</b>	<b>80</b>	<b>5.9</b>	<b>5.1</b>
	10/2/2015	<b>43</b>	<b>15.7</b>	<b>70</b>	<b>5.4</b>	<b>4.0</b>
	1/28/2016	<b>17.9</b>	<b>7.4</b>	<b>33</b>	<b>2.53</b>	<b>2.0</b>
	8/5/2016	<b>32</b>	<b>11.8</b>	<b>61</b>	<b>4.0</b>	<b>3.5</b>
	11/8/2016	<b>36</b>	<b>12.4</b>	<b>55</b>	<b>5.2</b>	<b>2.48</b>
	1/5/2017	<b>24.4</b>	<b>10.3</b>	<b>50</b>	<b>3.8</b>	<b>1.45</b>
	6/23/2017	<b>13.1</b>	<b>7.7</b>	<b>37</b>	<b>5.1</b>	<b>1.55</b>
	9/21/2017	<b>24.2</b>	<b>10.5</b>	<b>50</b>	<b>3.8</b>	<b>2.29</b>
	12/29/2017	<b>19.8</b>	<b>9.3</b>	<b>47</b>	<b>3.3</b>	<b>1.86</b>
	1/2/2020	<b>7.0</b>	<b>5.4</b>	<b>26</b>	<b>1.6</b>	<b>0.44 J</b>
	9/7/2022	<b>36.3</b>	<b>12.4</b>	<b>55.9</b>	<b>3.7</b>	<b>2.6</b>
DUP 9/7/2022	<b>37.8</b>	<b>12.5</b>	<b>56.8</b>	<b>3.9</b>	<b>2.6</b>	
12/21/2022	<b>20.6</b>	<b>7.0</b>	<b>30.7</b>	<b>2.2</b>	<b>0.70 J</b>	
MW-9	8/13/2015	<b>0.76 J</b>	<b>0.60 J</b>	<b>1.13 J</b>	<0.54	<b>0.20 J</b>
	10/2/2015	<0.49	<0.47	<b>2.99</b>	<0.54	<0.17
	1/28/2016	<b>3.7</b>	<b>3.02</b>	<b>13.2</b>	<b>0.77 J</b>	<b>1.35</b>
	8/5/2016	<b>14.2</b>	<b>9.9</b>	<b>47.0</b>	<b>2.35</b>	<b>4.5</b>
	11/8/2016	<b>5.2</b>	<b>2.12</b>	<b>7.6</b>	<0.54	<0.17
	1/5/2017	<b>9.2</b>	<b>5.8</b>	<b>24.2</b>	<b>1.49 J</b>	<b>0.70</b>
	6/22/2017	<b>16.4</b>	<b>9.2</b>	<b>22.1</b>	<b>2.85</b>	<b>0.98</b>
	9/21/2017	<b>18.8</b>	<b>11.9</b>	<b>53</b>	<b>3.14</b>	<b>3.8</b>
	12/29/2017	<b>21</b>	<b>9.8</b>	<b>38</b>	<b>2.05</b>	<b>0.86</b>
	1/2/2020	<b>15.3</b>	<b>7.5</b>	<b>27</b>	<b>1.38</b>	<b>1.97</b>
9/7/2022	<b>34.8</b>	<b>12.4</b>	<b>32.8</b>	<b>1.7</b>	<b>1.9</b>	
12/21/2022	<b>22.2</b>	<b>8.1</b>	<b>17.9</b>	<b>1.3</b>	<0.17	

**TABLE 3**  
**MONITORING WELL SAMPLE ANALYTICAL RESULTS**

Former Peters Dry Cleaners  
5094 College Avenue, Greendale, Wisconsin

Monitoring Well ID	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
<b>Enforcement Standard</b>		<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>	<b>0.2</b>
<b>Preventative Action Limit</b>		<b>0.5</b>	<b>0.5</b>	<b>7</b>	<b>20</b>	<b>0.02</b>
MW-10	1/28/2016	<0.49	<0.47	<0.45	<0.54	<0.17
	6/22/2017	<0.48	<0.45	<0.41	<0.35	<0.19
	1/2/2020	<0.38	<0.3	<0.37	<0.34	<0.2
	9/7/2022	<0.41	<0.32	<0.47	<0.53	<0.17
MW-11	1/28/2016	<b>17.4</b>	<b>11.3</b>	<b>50</b>	<b>2.97</b>	<b>3.13</b>
	7/7/2016	<b>4.2</b>	<b>2.06</b>	<b>9</b>	<b>0.55 J</b>	<b>0.92</b>
	8/5/2016	<b>16.1</b>	<b>8.7</b>	<b>46</b>	<b>2.89</b>	<b>4.7</b>
	11/8/2016	<b>15.3</b>	<b>7.7</b>	<b>39</b>	<b>3.06</b>	<b>2.71</b>
	1/5/2017	<b>7.9</b>	<b>5.0</b>	<b>28</b>	<b>1.66 J</b>	<b>1.7</b>
	6/23/2017	<b>10.6</b>	<b>5.7</b>	<b>20</b>	<b>2.34</b>	<b>1.47</b>
	9/21/2017	<b>19.6</b>	<b>11.1</b>	<b>6.1</b>	<b>3.5</b>	<b>4.9</b>
	12/29/2017	<b>11.8</b>	<b>6.9</b>	<b>39</b>	<b>2.38</b>	<b>2.68</b>
	1/2/2020	<b>6.0</b>	<b>3.1</b>	<b>14</b>	<b>1.09</b>	<b>0.85</b>
	9/7/2022	<b>14.2</b>	<b>6.1</b>	<b>36.0</b>	<b>2.2</b>	<b>2.2</b>
12/21/2022	<b>16.9</b>	<b>8.2</b>	<b>42.9</b>	<b>3.2</b>	<b>2.1</b>	
MW-12	1/2/2020	<0.38	<0.3	<0.37	<0.34	<0.2
	9/7/2022	<0.41	<0.32	<0.47	<0.53	<0.17
	12/21/2022	<0.41	<0.32	<0.47	<0.53	<0.17
PZ-1	1/2/2020	<0.38	<0.3	<0.37	<0.34	<0.2
	9/7/2022	<0.41	<0.32	<0.47	<0.53	<0.17
	12/21/2022	<0.41	<0.32	<0.47	<0.53	<0.17

**Notes:**

Only chlorinated volatile organic compounds are reported on this table

µg/L = micrograms per liter

Samples analyzed using EPA SW-846 Method 8260

VOCs = Volatile Organic Compounds

**Bolded** values are above detection limits

**Bolded** and blue shaded values are above Public Health Enforcement Standards

**Bolded** and orange shaded values are above Public Health Preventive Action Limits

Samples/constituents not shown are below laboratory reporting limits

J = Analyte concentration detected between the laboratory Reporting Limit and Method Detection Limit

ND = Not Detected

**Table 4**  
**GROUNDWATER GEOCHEMISTRY DATA**

Former Peters Dry Cleaners  
5094 College Avenue, Greendale, Wisconsin

Monitoring Well Identification	Sample Date	Dissolved Gases			Inorganic/ Physical Parameters										Dehalococoides (DHC)			
		Ethane	Ethene	Methane	Dissolved Iron	Dissolved Manganese	Total Iron	Total Manganese	Nitrate Plus Nitrite	Sulfate	Chloride	Total Organic Carbon (TOC)	Dissolved Oxygen	Oxidation-Reduction Potential	DHC	IceA Reductase	BAV1 Vinyl Chloride Reductase	Vinyl Chloride Reductase
		µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mV	cells/mL	cells/mL	cells/mL	cells/mL
MW-5	11/8/2016	<0.5	<0.5	<b>4.23</b>	<0.04	<b>127</b>	--	--	<0.15	<b>434</b>	<b>182</b>	<b>2.32</b>	<b>13.18*</b>	<b>110</b>	<b>2.89 E+01</b>	<5.00 E-01	<5.00 E-01	<5.00 E-01
	1/5/2017	<0.5	<0.5	<b>5.3</b>	<b>0.02 J</b>	<b>9.2</b>	--	--	<0.15	<b>215</b>	<b>297</b>	<b>2.50</b>	<b>14.17*</b>	<b>252</b>	--	--	--	--
	6/23/2017	<0.5	<0.5	<1	<0.03	<b>9.1 J</b>	--	--	<b>0.18 J</b>	<b>359</b>	<b>244</b>	<b>2.99</b>	<b>1.79</b>	<b>289</b>	--	--	--	--
	9/21/2017	<b>0.76 J</b>	<0.5	<b>4.76</b>	--	--	<b>0.66</b>	<b>253</b>	<0.17	<b>330</b>	<b>244</b>	<b>4.00</b>	<b>0</b>	<b>4</b>	--	--	--	--
	12/29/2017	<b>0.67 J</b>	<0.5	<b>2.13</b>	--	--	<b>0.11</b>	<b>85.1</b>	<0.36	<b>272</b>	<b>189</b>	--	<b>1.78</b>	<b>219</b>	--	--	--	--
	12/21/2022	<0.39	<0.25	<0.58	<b>2.2</b>	<b>43.4</b>	<b>8.37</b>	<b>125</b>	<0.059	<b>290</b>	<b>96.9</b>	<b>2.4</b>	<b>6.07</b>	<b>231.2</b>	--	--	--	--
MW-8	11/8/2016	<0.5	<0.5	<b>31.6</b>	<0.04	<b>27.4</b>	--	--	<0.15	<b>71.5</b>	<b>373</b>	<b>2.29</b>	<b>0.78</b>	<b>116</b>	<b>3.00 E-01 J</b>	<4.00 E-01	<4.00 E-01	<4.00 E-01
	1/5/2017	<0.5	<0.5	<b>7.0</b>	<b>0.02 J</b>	<b>12.2</b>	--	--	<0.15	<b>76.8</b>	<b>386</b>	<b>2.80</b>	<b>9.33</b>	<b>277</b>	--	--	--	--
	6/23/2017	<0.5	<0.5	<b>24.7</b>	<0.03	<b>24.6</b>	--	--	<b>0.34 J</b>	<b>80.7</b>	<b>254</b>	<b>7.37</b>	<b>0.06</b>	<b>228</b>	--	--	--	--
	9/21/2017	<0.5	<0.5	<b>28.0</b>	--	--	0.13	<b>65.9</b>	<0.17	<b>78.1</b>	<b>344</b>	<b>3.30</b>	<b>0</b>	<b>32</b>	--	--	--	--
	12/29/2018	<0.5	<0.5	<b>10.2</b>	--	--	0.17	<b>78.9</b>	<0.36	<b>53.4</b>	<b>241</b>	<b>2.34</b>	<b>4.81</b>	<b>107</b>	--	--	--	--
	12/21/2022	<0.39	<0.25	<b>17.0</b>	<b>1.33</b>	<b>41.7</b>	<b>4.8</b>	<b>41.7</b>	<0.059	<b>49.6</b>	<b>358</b>	<b>1.8</b>	<b>3.75</b>	<b>2.20</b>	--	--	--	--
MW-9	11/8/2016	<0.5	<0.5	<b>38.4</b>	<b>0.04 J</b>	<b>35.2</b>	--	--	<b>0.23 J</b>	<b>67.1</b>	<b>969</b>	<b>1.35</b>	<b>0.75</b>	<b>78</b>	--	--	--	--
	1/5/2017	<0.5	<0.5	<b>4.5</b>	<0.008	<b>21.8</b>	--	--	<b>0.25 J</b>	<b>59.7</b>	<b>503</b>	<b>1.71</b>	<b>10.17*</b>	<b>263</b>	--	--	--	--
	6/22/2017	<0.5	<0.5	<4.4	<0.03	<17.7	--	--	<b>0.72</b>	<b>48.6</b>	<b>326</b>	<b>1.82</b>	<b>0.4</b>	<b>192</b>	--	--	--	--
	9/21/2017	<0.5	<0.5	<b>7.92</b>	--	--	<b>0.35</b>	<b>52.5</b>	<b>0.20 J</b>	<b>56.5</b>	<b>238</b>	<b>2.62</b>	<b>0</b>	<b>98</b>	--	--	--	--
	12/29/2018	<0.5	<0.5	<1	--	--	<b>0.07 J</b>	<b>129</b>	<0.36	<b>39.8</b>	<b>198</b>	<b>1.54</b>	<b>1.28</b>	<b>162</b>	--	--	--	--
	12/21/2022	<0.39	<0.25	<b>12.2</b>	<b>3.28</b>	<b>84.1</b>	<b>31.6</b>	<b>723</b>	<b>0.16 J</b>	<b>58.2</b>	<b>406</b>	<b>1.3</b>	<b>6.18</b>	<b>228.6</b>	--	--	--	--
MW-11	11/8/2016	<0.5	<0.5	<b>28.3</b>	<0.04	<b>210</b>	--	--	<0.15	<b>91.5</b>	<b>1,529</b>	<b>3.05</b>	<b>0.22</b>	<b>134</b>	--	--	--	--
	1/5/2017	<0.5	<0.5	<b>10.4</b>	<b>0.03</b>	<b>110</b>	--	--	<0.15	<b>111</b>	<b>1,449</b>	<b>3.60</b>	<b>15.11*</b>	<b>284</b>	--	--	--	--
	6/23/2017	<0.5	<0.5	<b>23.6</b>	<b>0.12</b>	<b>191</b>	--	--	<0.17	<b>113</b>	<b>1,746</b>	<b>5.53</b>	<b>0</b>	<b>-46</b>	--	--	--	--
	9/21/2017	<0.5	<0.5	<b>94.5</b>	--	--	<b>0.35</b>	<b>229</b>	<0.17	<b>90.7</b>	<b>1,258</b>	<b>3.97</b>	<b>0</b>	<b>-111</b>	--	--	--	--
	12/29/2018	<0.5	<0.5	<b>52.5</b>	--	--	<b>0.19</b>	<b>188</b>	<0.36	<b>92.0</b>	<b>1,026</b>	<b>3.04</b>	<b>2.26</b>	<b>155</b>	--	--	--	--
	12/21/2022	<0.39	<0.25	<b>33.4</b>	<b>0.616</b>	<b>265</b>	<b>4.97</b>	<b>334</b>	<0.059	<b>8,650</b>	<b>1,340</b>	<b>2.7</b>	<b>3.20</b>	<b>225.1</b>	--	--	--	--

**Notes:**

**Bolded** values are above detection limits

\* = Dissolved oxygen concentrations above 10 mg/L are not typically observed in groundwater. Malfunction of probe/sensor suspected.

-- = Not A--lyzed

J = A--lyte concentration detected between the laboratory Reporting Limit and the laboratory Method Detection Limit

µg/L = micrograms per liter

mg/L = milligrams per liter

mV = millivolts

mL = milliliters



**TABLE 5**  
**VAPOR ANALYTICAL RESULTS**  
Former Peter's Dry Cleaners  
5094 College Avenue Greendale, Wisconsin

Sample Address	Sample Identification	Sample Location	Date Sampled	Mitigation	Chlorinated VOCs				
					Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
<b>INDOOR/ OUTDOOR AIR</b>									
<b>Residential Vapor Action Level</b>					<b>42</b>	<b>2.1</b>	<b>NE</b>	<b>NE</b>	<b>1.7</b>
<b>Small Commercial Vapor Action Level</b>					<b>180</b>	<b>8.8</b>	<b>NE</b>	<b>NE</b>	<b>28</b>
Site	6305-IA-1	Frmr DCM	11/6/2014	No	<b>61.4</b>	<1.07	<19.8	<39.6	<1.28
			3/17/2015		<b>27.5</b>	<1.07	<19.8	<39.6	<1.28
			8/13/2015		<b>37.0</b>	<1.07	<19.8	<39.6	<1.28
			12/1-12/21/22		<b>1.26</b>	<0.259	<0.241	<0.241	<0.301
Site	6305-IA-2	Cooler Room	3/17/2015	No	<b>23.5</b>	<1.07	<19.8	<39.6	<1.28
			8/13/2015		<b>26.7</b>	<1.07	<19.8	<39.6	<1.28
Site	6305-IA-3	Coin Laundry	3/17/2015	No	<b>13.6</b>	<1.07	<19.8	<39.6	<1.28
			8/13/2015		<b>14.5</b>	<1.07	<19.8	<39.6	<1.28
Site	6305-OA-1	N property	11/6/2014	No	<3.19	<1.07	<19.8	<39.6	<1.28
			3/17/2015		<3.19	<1.07	<19.8	<39.6	<1.28
			8/13/2015		<3.19	<1.07	<19.8	<39.6	<1.28
College Square Bldg 4	6305-CSB4-IA-1	Locker Room	11/19/2014	No	<3.19	<1.07	<19.8	<39.6	<1.28
College Square Bldg 4	6305-CSB4-IA-2	Utility Room	11/19/2014	No	<3.19	<1.07	<19.8	<39.6	<1.28
College Square Bldg 4	6305-CSB4-OA	West Fence	11/19/2014	No	<3.19	<1.07	<19.8	<39.6	<1.28
<b>SUB-SLAB VAPOR</b>									
<b>Residential Vapor Risk Screening Level</b>					<b>1,400</b>	<b>70</b>	<b>NE</b>	<b>NE</b>	<b>57</b>
<b>Small Commercial Vapor Risk Screening Level</b>					<b>6,000</b>	<b>290</b>	<b>NE</b>	<b>NE</b>	<b>930</b>
Site	6305-SSV-1	Frmr DCM	11/6/2014	No	<b>2,010</b>	<21.5	<396	<793	<25.6
			3/17/2015		<b>4,250</b>	<10.7	<198	<396	<12.8
			8/13/2015		<b>4,860</b>	<b>14.0</b>	<198	<396	<12.8
Site	6305-SSV-2	Cooler Room	3/17/2015	No	<b>281</b>	<10.7	<198	<396	<12.8
			8/13/2015		<b>1,780</b>	<10.7	<198	<396	<12.8
Site	6305-SSV-3	Behind Coin Laundry Dryers	3/17/2015	No	<b>508</b>	<10.7	<198	<396	<12.8
			8/13/2015		<b>471</b>	<10.7	<198	<396	<12.8
College Square Bldg 4	6305-CSB4-SSV-1	Locker Room	11/19/2014	No	<31.9	<10.7	<198	<396	<12.8
College Square Bldg 4	6305-CSB4-SSV-2	Utility Room	11/19/2014	No	<31.9	<10.7	<198	<396	<12.8
<b>SANITARY SEWER GAS</b>									
<b>Residential Vapor Risk Screening Level</b>					<b>1,400</b>	<b>70</b>	<b>NE</b>	<b>1,400</b>	<b>57</b>
<b>Small Commercial Vapor Risk Screening Level</b>					<b>5,800</b>	<b>290</b>	<b>NE</b>	<b>5,800</b>	<b>930</b>
Site - Manhole 046	SSG-1	On-Site	2/24/2022	NA	<31.9	<10.7	<198	<396	<12.8
Sidewalk - Manhole 044	SSG-2	NE of Site	2/24/2022	NA	<31.9	<10.7	<198	<396	<12.8
<b>SSDS EFFLUENT</b>									
Site	6305-EFFLUENT	SSDS Effluent	12/21/2022	NA	<b>155</b>	<10.7	<198	<396	<12.8

**Notes:**

Results reported in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )  
Analysis performed by Envision Laboratories according to EPA Method TO-15  
IA = Indoor Air  
OA = Outdoor Air  
SSV = Sub-Slab Vapor  
SSG = Sanitary Sewer Gas  
Sub-slab vapor screening levels derived using the attenuation factor of 0.03

**Bolded** values are above detection limits

**Bolded** and blue shaded concentrations exceed the applicable residential screening level

NE = Not Established

NA = Not Applicable

Frmr DCM = Former Dry Cleaning Machine

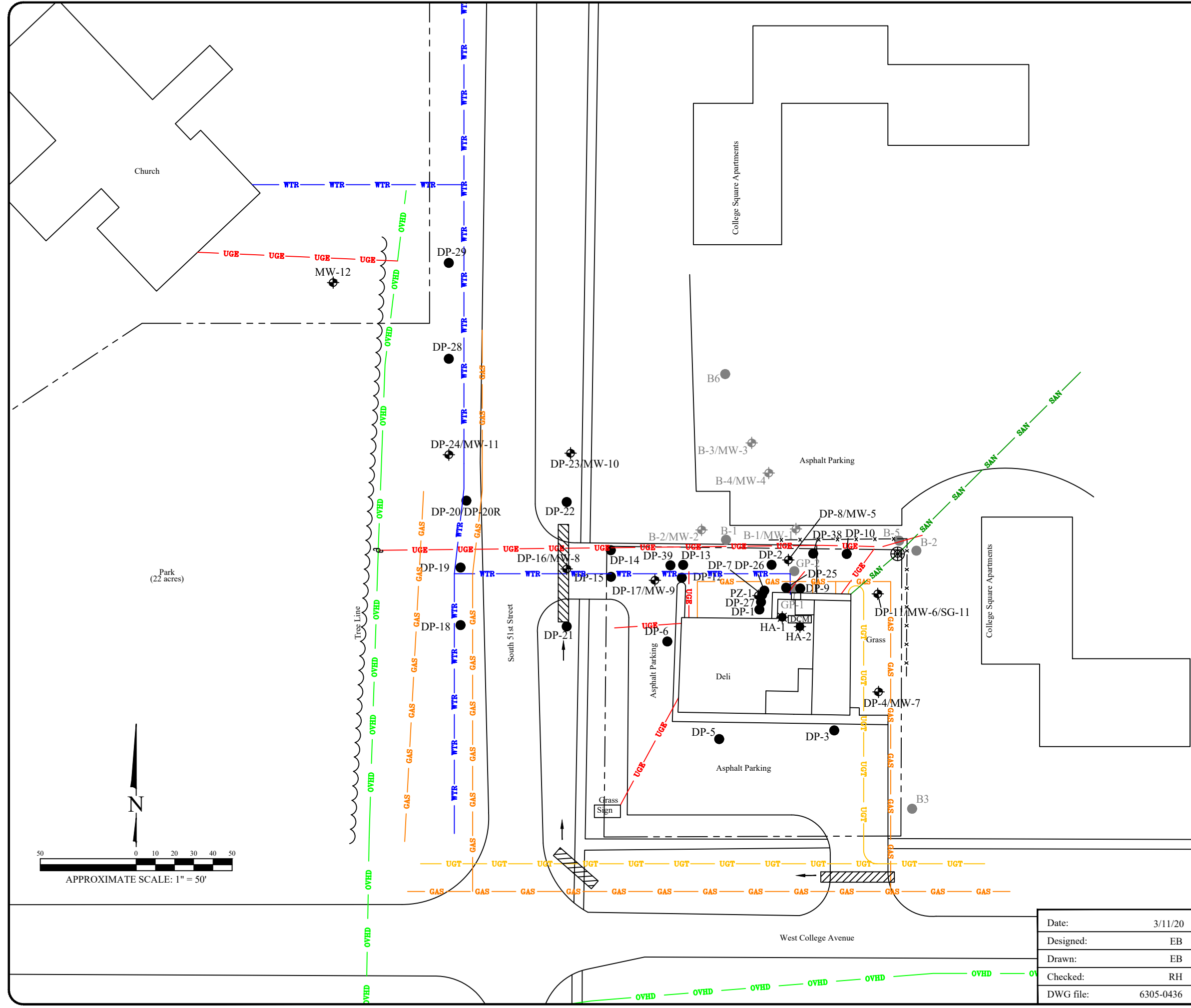
Res = Residential

**TABLE 6**  
**SSDS Commissioning Data**  
Former Peters Dry Cleaners  
5094 College Avenue, Greendale, Wisconsin

ID	Pressure Measurements		
	11/23/2022	12/21/2022	1/12/2023
SSV-1	-0.144	-0.108	-0.123
SSV-2	0	0	0
SSV-3	0	-0.002	0
SSV-4	0	-0.033	-0.01
TP-9*	0.04	NM	-0.099

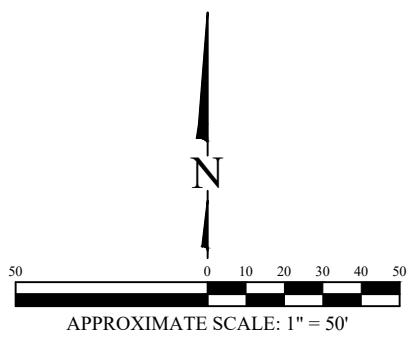
\*TP-9 was abandoned permanently after 1/12/2023 measurement

**FIGURES**

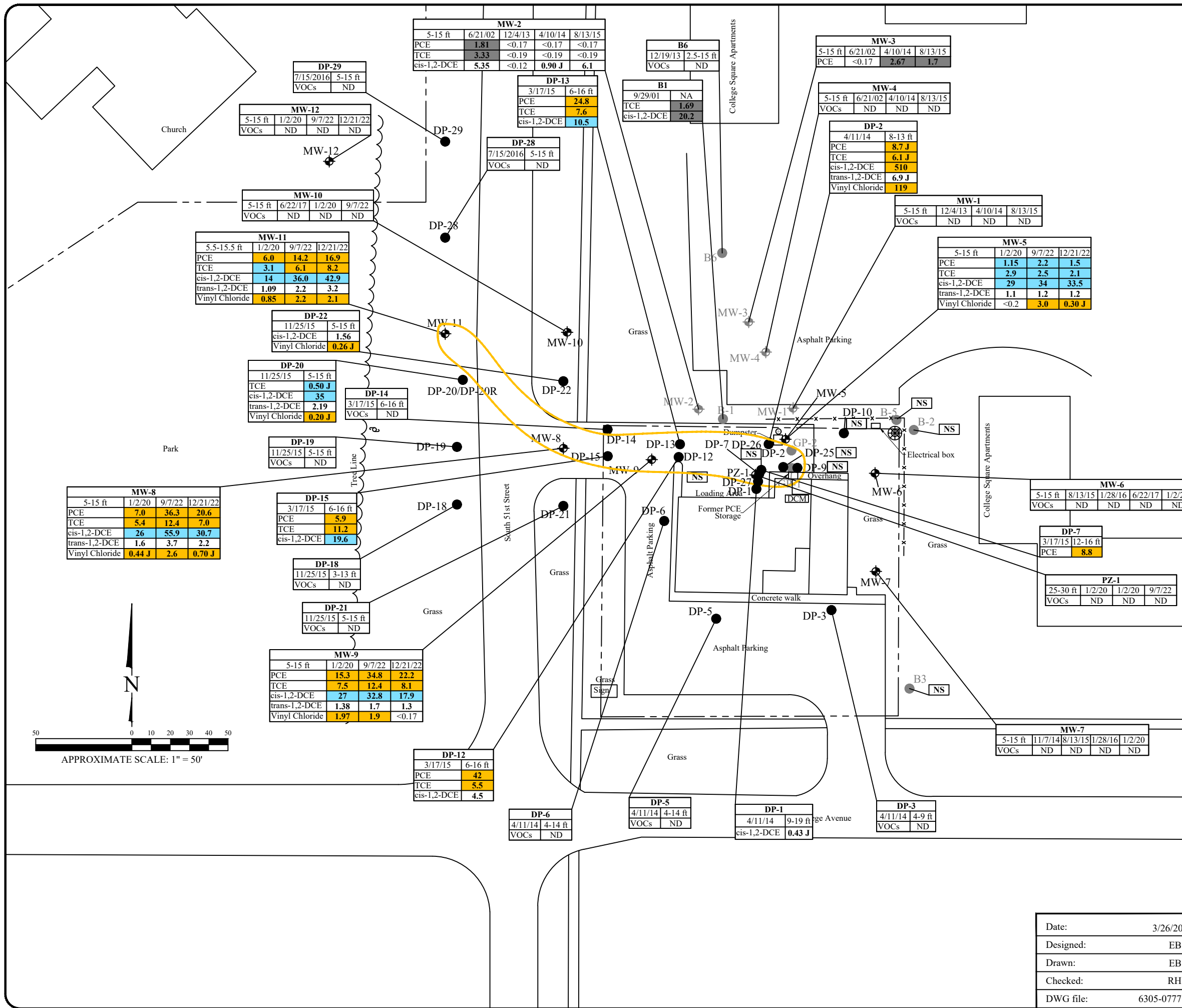


**Legend**

- Property boundary
- GAS Underground gas utility line
- WTR Underground water utility line
- SAN Underground sanitary utility line
- UGT Fiber optics line
- STM Underground storm utility line
- CATV Underground cable television utility line
- UGE Underground electrical utility line
- OVHD Over head electrical utility line
- Fence line
- Drum
- Manhole
- DCM Former location of dry cleaning machine
- Storm water flow direction
- Storm culvert
- DP-1 Direct-push soil boring and Temporary monitoring well location
- B1 Soil boring location (By Others)
- B-1/MW-1 Monitoring well location (By Others)
- MW-5 Monitoring well
- HA-1 Hand auger



<b>SITE PLAN</b>															
Former Peters Dry Cleaners 5094 West College Avenue Greendale, WI															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Date:</td><td>3/11/20</td></tr> <tr><td>Designed:</td><td>EB</td></tr> <tr><td>Drawn:</td><td>EB</td></tr> <tr><td>Checked:</td><td>RH</td></tr> <tr><td>DWG file:</td><td>6305-0436</td></tr> </table>	Date:	3/11/20	Designed:	EB	Drawn:	EB	Checked:	RH	DWG file:	6305-0436	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">Figure 1</td> </tr> <tr> <td style="text-align: center;">825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com</td> <td style="text-align: center;">Project 6305</td> </tr> </table>		Figure 1	825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com	Project 6305
Date:	3/11/20														
Designed:	EB														
Drawn:	EB														
Checked:	RH														
DWG file:	6305-0436														
	Figure 1														
825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com	Project 6305														



### Legend


- Property boundary
- x-x-x-x-x- Fence line
- DCM Former location of dry cleaning machine
- DP-1 ● Direct-push soil boring and Temporary monitoring well location
- B1 ● Soil boring location (By Others)
- MW-1 ⊕ Monitoring well location (By Others)
- MW-5 ⊕ Monitoring well
- PCE above ES

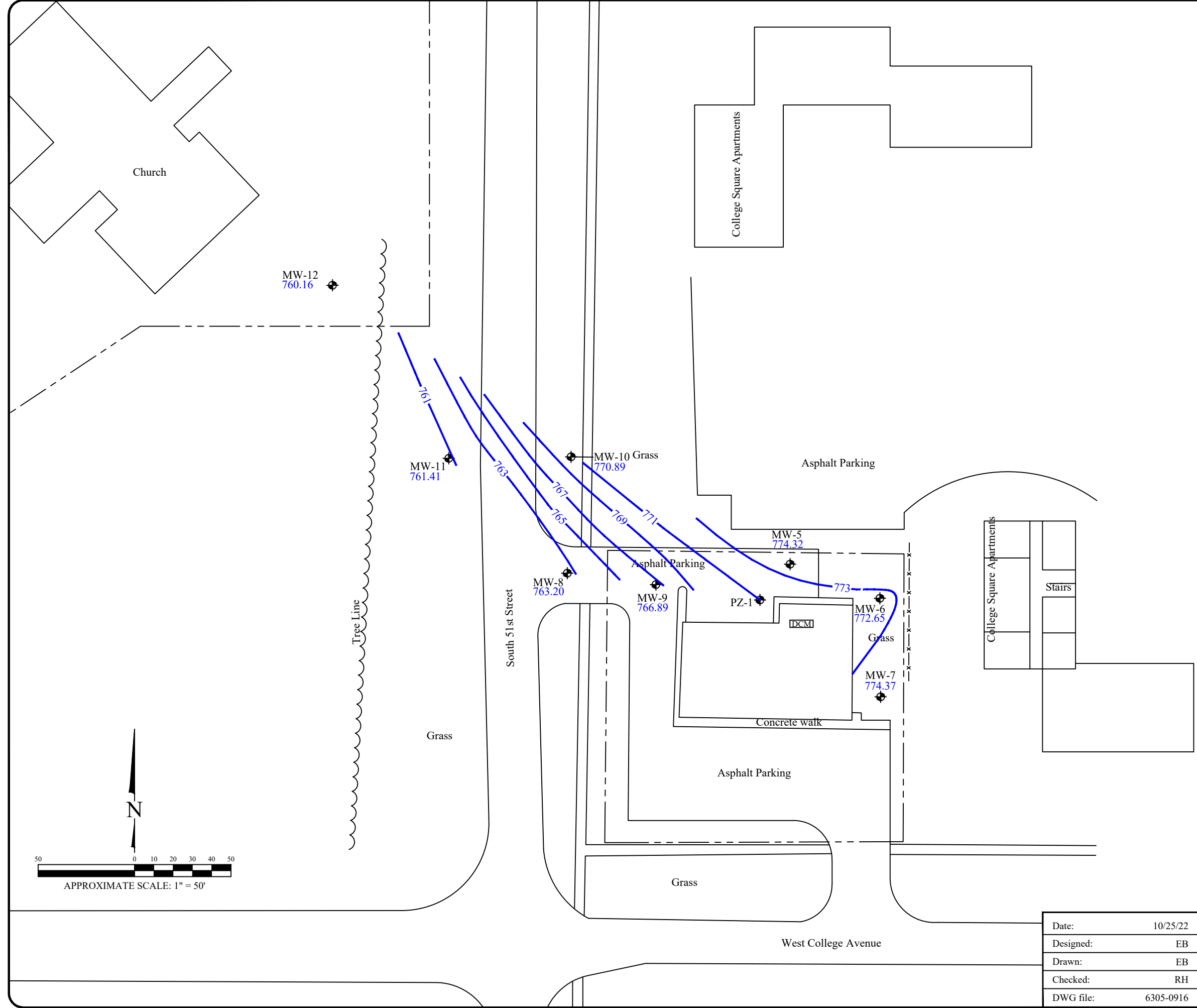
Analyte	Public Health Preventive Action Limit	Public Health Enforcement Standard
PCE	<b>0.5</b>	<b>5</b>
TCE	<b>0.5</b>	<b>5</b>
cis-1,2-DCE	<b>7</b>	<b>70</b>
trans-1,2-DCE	<b>20</b>	<b>100</b>
Vinyl Chloride	<b>0.02</b>	<b>0.2</b>

- Notes:
- Gray shaded locations represent grab-groundwater sample or abandoned monitoring well sample locations at off-site properties where no further action is needed.
  - Bolded and orange shaded values exceed the Public Health Enforcement Standard
  - Bolded and blue shaded values exceed the Public Health Preventive Action Limit
  - Bolded values are above detection limits
  - J = Analyte concentration less than laboratory detection limits
  - Samples analyzed using EPA SW-846 Method 8260
  - All results reported in units of micrograms per liter (ug/L)
  - PCE = Tetrachloroethene
  - TCE = Trichloroethene
  - cis-1,2-DCE = cis-1,2-Dichloroethene
  - trans-1,2-DCE = trans-1,2-Dichloroethene
  - ND = Not detected
  - NS = Not Sampled
  - VOCs = Volatile Organic Compounds
  - Non-target compound detected in MW-1, MW-5, and MW-7 but not shown
  - ES = Public Health Enforcement Standard

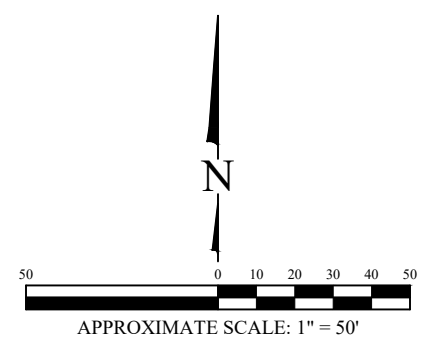
### GROUNDWATER ANALYTICAL RESULTS

Former Peters Dry Cleaners  
5094 West College Avenue  
Greendale, WI

Date:	3/26/20	 825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com	Figure
Designed:	EB		2
Drawn:	EB		Project
Checked:	RH		6305
DWG file:	6305-0777		



- Legend**
- Property boundary
  - x-x-x-x-x- Fence line
  - MW-5 Monitoring well
  - DCM Former location of dry cleaning machine
  - 765 Groundwater elevation contour (Dashed where inferred)
  - 774.32 Groundwater elevation (feet above mean sea level)

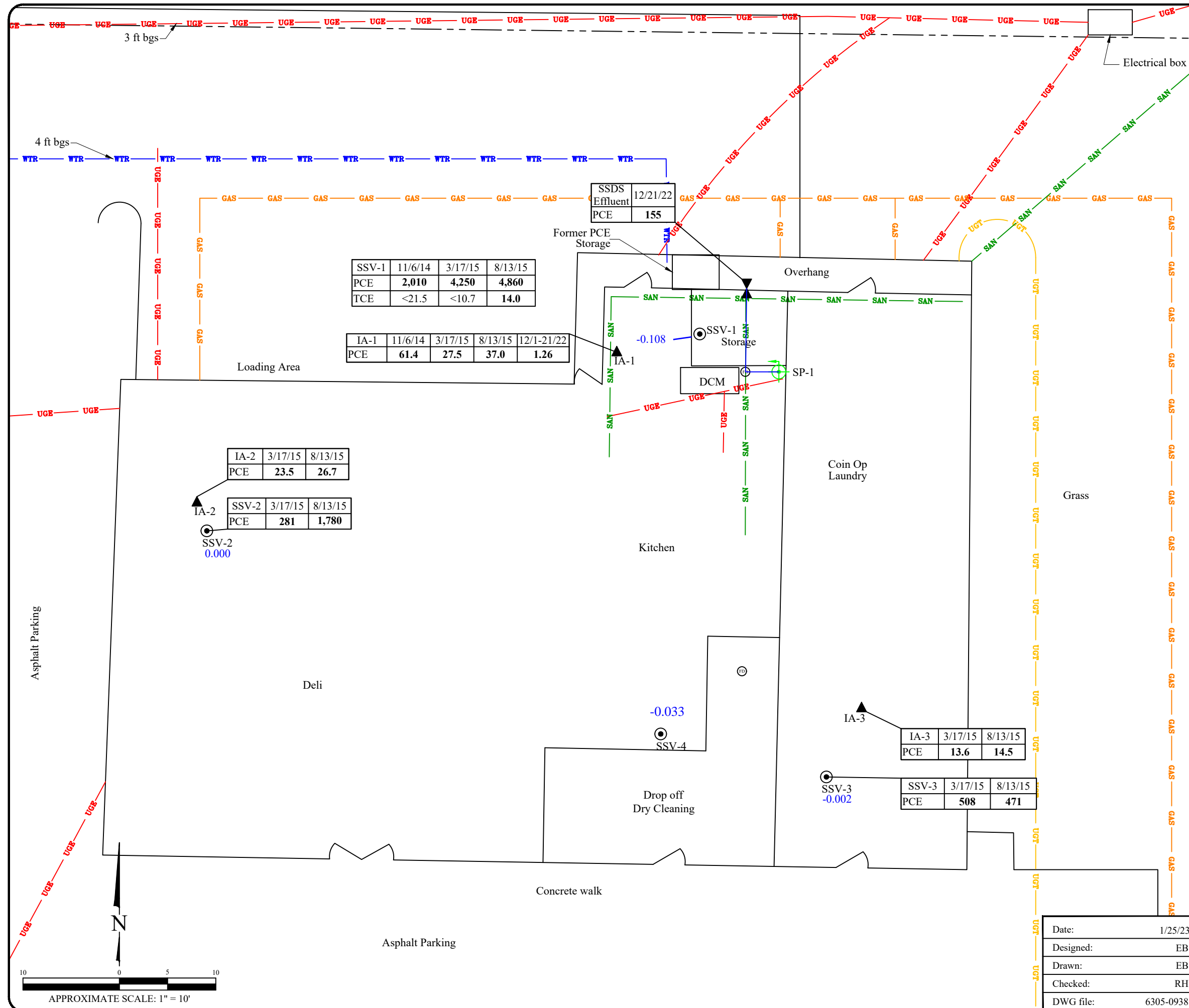


POTENTIOMETRIC SURFACE MAP  
 SEPTEMBER 7, 2022  
 Former Peters Dry Cleaners  
 5094 West College Avenue  
 Greendale, WI

Date:	10/25/22
Designed:	EB
Drawn:	EB
Checked:	RH
DWG file:	6305-0916

825 North Capitol Avenue • Indianapolis, IN 46204  
 EnviroForensics.com

Figure	5
Project	6305



### Legend

- Property boundary
- GAS Underground gas utility line
- WTR Underground water utility line
- SAN Underground sanitary utility line
- UGT Fiber optics line
- STM Underground storm utility line
- CATV Underground cable television utility line
- UGE Underground electrical utility line
- Over head electrical utility line
- Fence line
- Floor drain
- Manhole
- DCM Former location of dry cleaning machine
- IA-1 Indoor air sample
- SSV-1 Sub-slab sample
- SP-1 Suction point
- Mitigation Fan

-0.002 = Pressure field extension results (inches of water)

Analyte	Sub-slab vapor	
	Non-Residential Vapor Risk Screening Level †	Residential Vapor Risk Screening Level †
PCE	<b>6,000</b>	<b>1,400</b>

Note:

- Bolded and shaded values exceed Non-Residential Vapor Risk Screening Levels
- All results reported in micrograms per cubic meter (ug/m3)
- NE = Not established
- 1 = Vapor risk screening level = US EPA Regional Screening Levels with an attenuation factor of 0.03 for sub-slab vapor to indoor air, and a 0.1 adjustment for carcinogens as described in WDNR Publication RR-800
- PCE = Tetrachloroethene
- 1,2,4-TMB = 1,2,4-Trimethylbenzene
- 1,3,5-TMB = 1,3,5-Trimethylbenzene

Analyte	Indoor Air	
	Non-Residential Vapor Action Level	Residential Vapor Action Level
PCE	<b>180</b>	<b>42</b>

- Bold and shaded values exceed the Vapor Action level.
- Bold values equal or exceed laboratory detection limits.
- Results reported in micrograms per cubic meter (ug/m3) = parts per billion (ppb)
- PCE = Tetrachloroethene

SSV-1	11/6/14	3/17/15	8/13/15
PCE	<b>2,010</b>	<b>4,250</b>	<b>4,860</b>
TCE	<21.5	<10.7	14.0

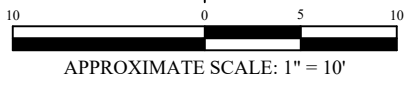
IA-1	11/6/14	3/17/15	8/13/15	12/1-21/22
PCE	<b>61.4</b>	<b>27.5</b>	<b>37.0</b>	<b>1.26</b>

IA-2	3/17/15	8/13/15
PCE	<b>23.5</b>	<b>26.7</b>

SSV-2	3/17/15	8/13/15
PCE	<b>281</b>	<b>1,780</b>

IA-3	3/17/15	8/13/15
PCE	<b>13.6</b>	<b>14.5</b>

SSV-3	3/17/15	8/13/15
PCE	<b>508</b>	<b>471</b>

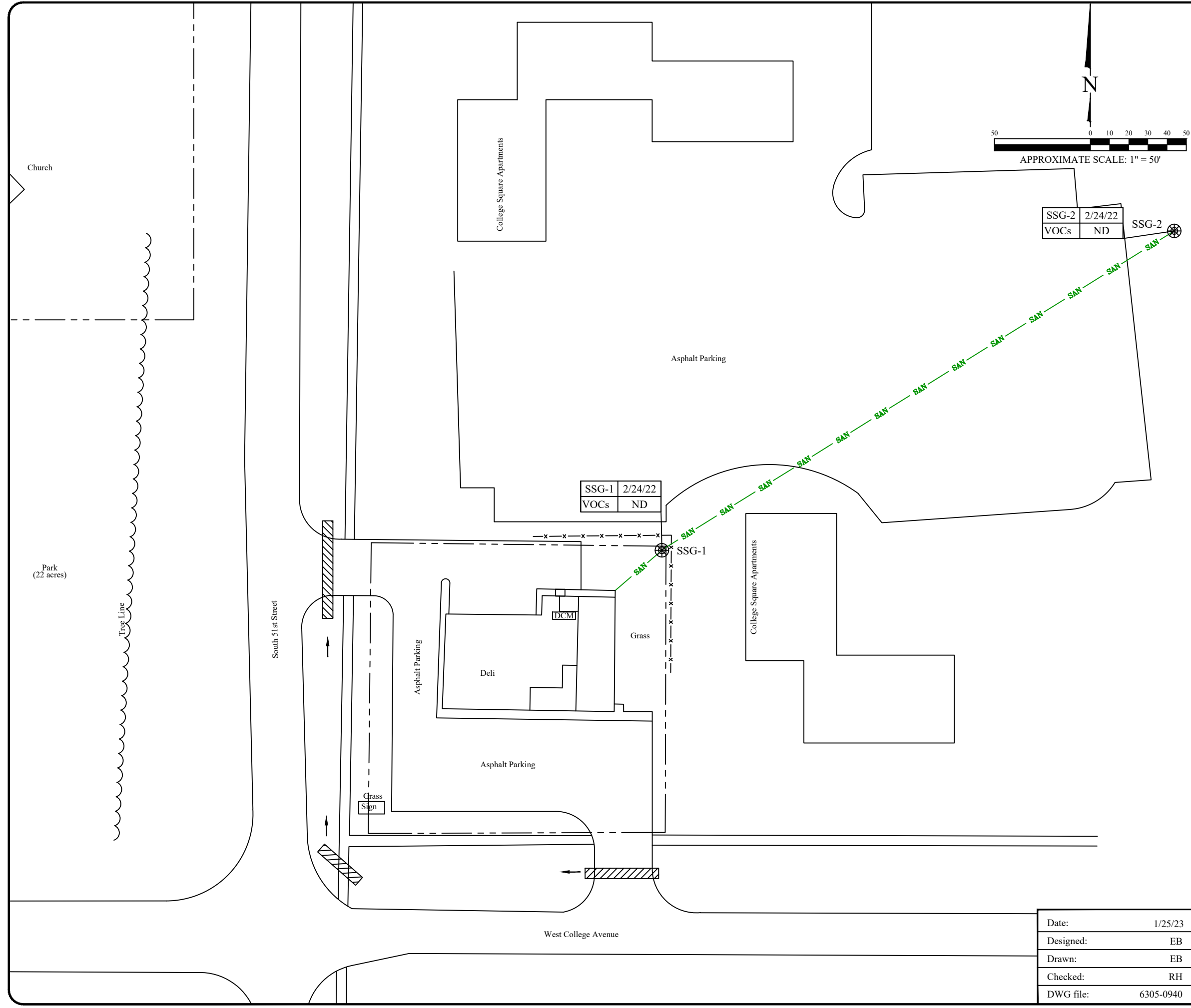


#### SUB-SLAB DEPRESSURIZATION LAYOUT

Former Peters Dry Cleaners  
5094 West College Avenue  
Greendale, WI

Date: 1/25/23	Figure: 4
Designed: EB	Project: 6305
Drawn: EB	
Checked: RH	
DWG file: 6305-0938	

825 North Capitol Avenue • Indianapolis, IN 46204  
EnviroForensics.com




**Legend**

- Property boundary
- SAN — Underground sanitary utility line
- STM — Underground storm utility line
- x-x-x-x-x-x- Fence line
- SSG-1 Ⓢ Manhole (Sanitary Sewer Gas Sample)
- DCM Former location of dry cleaning machine
- ← Storm water flow direction
- Storm culvert

SANITARY SEWER GAS		
Analyte	Non-Residential Vapor Risk Screening Level <sup>1</sup>	Residential Vapor Risk Screening Level <sup>1</sup>
PCE	<b>5,800</b>	<b>1,400</b>

- Note:
- Bolded and shaded values exceed Non-Residential Vapor Risk Screening Levels
  - All results reported in micrograms per cubic meter (ug/m3)
  - NE = Not established
  - 1 = Vapor risk screening level = US EPA Regional Screening Levels with an attenuation factor of 0.03 for sub-slab vapor to indoor air, and a 0.1 adjustment for carcinogens as described in WDNR Publication RR-800
  - PCE = Tetrachloroethene

<b>SANITARY SEWER GAS ANALYTICAL RESULTS</b>	
Former Peters Dry Cleaners 5094 West College Avenue Greendale, WI	
Date: 1/25/23	 825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com
Designed: EB	
Drawn: EB	
Checked: RH	
DWG file: 6305-0940	
Figure	5
Project	6305



**ATTACHMENT 1**



**EnvisionAir**  
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

September 30, 2022

EnvisionAir Project Number: 2022-522  
Client Project Name: 6305 – Former Peters Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received September 12, 2022. 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".

David Norris  
Project Manager  
EnvisionAir, LLC



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

**Client Name:** ENVIROFORENSICS  
**Project ID:** 6305 - FORMER PETERS CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2022-522

**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>							
22-2827	6305-SSG-046	A	9/7/22	13:00	9/7/22	13:04	9/12/22	12:00	-30	-4	-4
22-2828	6305-SSG-044	A	9/7/22	13:23	9/7/22	13:27	9/12/22	12:00	-28	-4	-4



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

**Client Name:** ENVIROFORENSICS  
**Project ID:** 6305 - FORMER PETERS CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2022-522

**Analytical Method:** TO-15  
**Analytical Batch:** 091322AIR

**Client Sample ID:** 6305-SSG-046  
**EnvisionAir Sample Number:** 22-2827  
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 9/7/22 13:00  
**Sample Collection END Date/Time:** 9/7/22 13:04  
**Sample Received Date/Time:** 9/12/22 12:00

<u>Compounds</u>	<u>Sample Results ug/m<sup>3</sup></u>	<u>Reporting Limit ug/m<sup>3</sup></u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	9-13-22/19:33		
Analyst Initials	tjg		



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

**Client Name:** ENVIROFORENSICS  
**Project ID:** 6305 - FORMER PETERS CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2022-522

**Analytical Method:** TO-15  
**Analytical Batch:** 091322AIR

**Client Sample ID:** 6305-SSG-044  
**EnvisionAir Sample Number:** 22-2828  
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 9/7/22 13:23  
**Sample Collection END Date/Time:** 9/7/22 13:27  
**Sample Received Date/Time:** 9/12/22 12:00

<u>Compounds</u>	<u>Sample Results ug/m<sup>3</sup></u>	<u>Reporting Limit ug/m<sup>3</sup></u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	9-13-22/20:06		
Analyst Initials	tjg		

**TO-15 Quality Control Data**

**EnvisionAir Batch Number:** 091322AIR

<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)	97%		
Analysis Date/Time:	9-13-22/13:32		
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	9.81	8.57	10	98%	86%	13.5%	
trans-1,2-Dichloroethene	10.1	10.1	10	101%	101%	0.0%	
cis-1,2-Dichloroethene	10.6	10.8	10	106%	108%	1.9%	
Trichloroethene	9.47	9.45	10	95%	95%	0.2%	
Tetrachloroethene	10	10.2	10	100%	102%	2.0%	
4-bromofluorobenzene (surrogate)	92%	105%					
Analysis Date/Time:	9-13-22/11:41	9-13-22/12:24					
Analyst Initials	tjg	tjg					



**EnvisionAir**  
1441 Sadler Circle West Drive  
Indianapolis, IN 46239  
Ph: 317-351-0885  
Fax: 317-351-0882  
[www.envision-air.com](http://www.envision-air.com)

Flag Number

Comments

# CHAIN OF CUSTODY RECORD

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

Client: EnviroForensics P.O. Number: 2022-0423

Report: maxerman@enviroforensics.com Project Name or Number: 6305  
 Address: enviroforensics.com Former Petros Cleaners

Report To: Rob Hoveman Sampled by: R. Brown

Phone: 262-290-4001 QA/QC Required: (circle if applicable)  
 Level III Level IV

Invoice Address: 9cc00175 Reporting Units needed: (circle)  
1g/m<sup>3</sup> mg/m<sup>3</sup> PPBV PPMV

Desired TAT: (Please Circle One)  
 1 day 2 days 3 days Std (5 bus. days)

**REQUESTED PARAMETERS**

TO-15 Full List  
 TO-15 Short List (Specify in notes)

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



www.envision-air.com

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
6305-SSG-046	1LC	9-7-22	1300	9-7-22	1304	2227	0152	-30	-4	-4	22-2827
6305-SSG-044	1LC	9-7-22	1323	9-7-22	1327	519	9041	-28	-4	-4	22-2828

Comments:

Short List: PCE, TCE, CDE, TBE, VC

Relinquished by:	Date	Time	Received by:	Date	Time
<u>RL</u>	9-9-22	1630	<u>Feder</u>	9-9-22	1630
			<u>J. D. Anderson</u>	9-12-22	12:00



September 13, 2022

Robert Hoverman  
EnviroForensics  
N16 W23390 Stone Ridge Drive  
Suite G  
Waukesha, WI 53188

RE: Project: 6305 FORMER PETERS DRY CLEANER  
Pace Project No.: 40251085

Dear Robert Hoverman:

Enclosed are the analytical results for sample(s) received by the laboratory on September 08, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

---

### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40251085001	6305-MW-5	Water	09/07/22 15:10	09/08/22 09:50
40251085002	6305-MW-8	Water	09/07/22 14:20	09/08/22 09:50
40251085003	6305-MW-9	Water	09/07/22 14:40	09/08/22 09:50
40251085004	6305-MW-10	Water	09/07/22 14:10	09/08/22 09:50
40251085005	6305-MW-11	Water	09/07/22 13:55	09/08/22 09:50
40251085006	6305-MW-12	Water	09/07/22 13:15	09/08/22 09:50
40251085007	6305-PZ-1	Water	09/07/22 14:55	09/08/22 09:50
40251085008	6305-DUP-1	Water	09/07/22 00:00	09/08/22 09:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 6305 FORMER PETERS DRY CLEANER  
Pace Project No.: 40251085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40251085001	6305-MW-5	EPA 8260	EIB	64	PASI-G
40251085002	6305-MW-8	EPA 8260	EIB	64	PASI-G
40251085003	6305-MW-9	EPA 8260	EIB	64	PASI-G
40251085004	6305-MW-10	EPA 8260	EIB	64	PASI-G
40251085005	6305-MW-11	EPA 8260	EIB	64	PASI-G
40251085006	6305-MW-12	EPA 8260	EIB	64	PASI-G
40251085007	6305-PZ-1	EPA 8260	EIB	64	PASI-G
40251085008	6305-DUP-1	EPA 8260	EIB	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 6305 FORMER PETERS DRY CLEANER  
Pace Project No.: 40251085

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40251085001</b>	<b>6305-MW-5</b>					
EPA 8260	cis-1,2-Dichloroethene	33.5	ug/L	1.0	09/12/22 12:55	
EPA 8260	trans-1,2-Dichloroethene	1.2	ug/L	1.0	09/12/22 12:55	
EPA 8260	Tetrachloroethene	2.2	ug/L	1.0	09/12/22 12:55	
EPA 8260	Trichloroethene	2.5	ug/L	1.0	09/12/22 12:55	
EPA 8260	Vinyl chloride	3.0	ug/L	1.0	09/12/22 12:55	
<b>40251085002</b>	<b>6305-MW-8</b>					
EPA 8260	cis-1,2-Dichloroethene	55.9	ug/L	1.0	09/09/22 16:33	
EPA 8260	trans-1,2-Dichloroethene	3.7	ug/L	1.0	09/09/22 16:33	
EPA 8260	Tetrachloroethene	36.3	ug/L	1.0	09/09/22 16:33	
EPA 8260	Trichloroethene	12.4	ug/L	1.0	09/09/22 16:33	
EPA 8260	Vinyl chloride	2.6	ug/L	1.0	09/09/22 16:33	
<b>40251085003</b>	<b>6305-MW-9</b>					
EPA 8260	cis-1,2-Dichloroethene	32.8	ug/L	1.0	09/09/22 16:52	
EPA 8260	trans-1,2-Dichloroethene	1.7	ug/L	1.0	09/09/22 16:52	
EPA 8260	Tetrachloroethene	34.8	ug/L	1.0	09/09/22 16:52	
EPA 8260	Trichloroethene	12.4	ug/L	1.0	09/09/22 16:52	
EPA 8260	Vinyl chloride	1.9	ug/L	1.0	09/09/22 16:52	
<b>40251085005</b>	<b>6305-MW-11</b>					
EPA 8260	cis-1,2-Dichloroethene	36.0	ug/L	1.0	09/09/22 17:32	
EPA 8260	trans-1,2-Dichloroethene	2.2	ug/L	1.0	09/09/22 17:32	
EPA 8260	Tetrachloroethene	14.2	ug/L	1.0	09/09/22 17:32	
EPA 8260	Trichloroethene	6.1	ug/L	1.0	09/09/22 17:32	
EPA 8260	Vinyl chloride	2.2	ug/L	1.0	09/09/22 17:32	
<b>40251085008</b>	<b>6305-DUP-1</b>					
EPA 8260	cis-1,2-Dichloroethene	56.8	ug/L	1.0	09/09/22 18:31	
EPA 8260	trans-1,2-Dichloroethene	3.9	ug/L	1.0	09/09/22 18:31	
EPA 8260	Tetrachloroethene	37.8	ug/L	1.0	09/09/22 18:31	
EPA 8260	Trichloroethene	12.5	ug/L	1.0	09/09/22 18:31	
EPA 8260	Vinyl chloride	2.6	ug/L	1.0	09/09/22 18:31	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-5**      **Lab ID: 40251085001**      Collected: 09/07/22 15:10      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/12/22 12:55	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/12/22 12:55	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/12/22 12:55	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/12/22 12:55	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/12/22 12:55	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/12/22 12:55	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/12/22 12:55	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/12/22 12:55	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/12/22 12:55	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/12/22 12:55	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/12/22 12:55	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/12/22 12:55	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/12/22 12:55	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/12/22 12:55	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/12/22 12:55	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/12/22 12:55	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/12/22 12:55	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/12/22 12:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/12/22 12:55	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/12/22 12:55	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/12/22 12:55	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/12/22 12:55	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/12/22 12:55	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/12/22 12:55	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/12/22 12:55	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/12/22 12:55	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/12/22 12:55	75-35-4	
cis-1,2-Dichloroethene	33.5	ug/L	1.0	0.47	1		09/12/22 12:55	156-59-2	
trans-1,2-Dichloroethene	1.2	ug/L	1.0	0.53	1		09/12/22 12:55	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/12/22 12:55	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/12/22 12:55	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/12/22 12:55	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/12/22 12:55	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/12/22 12:55	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/12/22 12:55	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/12/22 12:55	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/12/22 12:55	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/12/22 12:55	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/12/22 12:55	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/12/22 12:55	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/12/22 12:55	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/12/22 12:55	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/12/22 12:55	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/12/22 12:55	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/12/22 12:55	100-42-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-5**      **Lab ID: 40251085001**      Collected: 09/07/22 15:10      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/12/22 12:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/12/22 12:55	79-34-5	
Tetrachloroethene	2.2	ug/L	1.0	0.41	1		09/12/22 12:55	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/12/22 12:55	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/12/22 12:55	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/12/22 12:55	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/12/22 12:55	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/12/22 12:55	79-00-5	
Trichloroethene	2.5	ug/L	1.0	0.32	1		09/12/22 12:55	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/12/22 12:55	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/12/22 12:55	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/12/22 12:55	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/12/22 12:55	108-67-8	
Vinyl chloride	3.0	ug/L	1.0	0.17	1		09/12/22 12:55	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/12/22 12:55	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/12/22 12:55	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/12/22 12:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		09/12/22 12:55	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		09/12/22 12:55	2037-26-5	

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## ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

Sample: 6305-MW-8 Lab ID: 40251085002 Collected: 09/07/22 14:20 Received: 09/08/22 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/09/22 16:33	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 16:33	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/09/22 16:33	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 16:33	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/09/22 16:33	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/09/22 16:33	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 16:33	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/09/22 16:33	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/09/22 16:33	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/09/22 16:33	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 16:33	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/09/22 16:33	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/09/22 16:33	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/09/22 16:33	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 16:33	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 16:33	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/09/22 16:33	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/09/22 16:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/09/22 16:33	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/09/22 16:33	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 16:33	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 16:33	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/09/22 16:33	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/09/22 16:33	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 16:33	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/09/22 16:33	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/09/22 16:33	75-35-4	
cis-1,2-Dichloroethene	55.9	ug/L	1.0	0.47	1		09/09/22 16:33	156-59-2	
trans-1,2-Dichloroethene	3.7	ug/L	1.0	0.53	1		09/09/22 16:33	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/09/22 16:33	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/09/22 16:33	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/09/22 16:33	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/09/22 16:33	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/09/22 16:33	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/09/22 16:33	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 16:33	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 16:33	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/09/22 16:33	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/09/22 16:33	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/09/22 16:33	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/09/22 16:33	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 16:33	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/09/22 16:33	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 16:33	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/09/22 16:33	100-42-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-8**      **Lab ID: 40251085002**      Collected: 09/07/22 14:20      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/09/22 16:33	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/09/22 16:33	79-34-5	
Tetrachloroethene	36.3	ug/L	1.0	0.41	1		09/09/22 16:33	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/09/22 16:33	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/09/22 16:33	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/09/22 16:33	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 16:33	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/09/22 16:33	79-00-5	
Trichloroethene	12.4	ug/L	1.0	0.32	1		09/09/22 16:33	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 16:33	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/09/22 16:33	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/09/22 16:33	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 16:33	108-67-8	
Vinyl chloride	2.6	ug/L	1.0	0.17	1		09/09/22 16:33	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/09/22 16:33	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/09/22 16:33	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/09/22 16:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		09/09/22 16:33	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		09/09/22 16:33	2037-26-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER  
Pace Project No.: 40251085

**Sample: 6305-MW-9**      **Lab ID: 40251085003**      Collected: 09/07/22 14:40      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/09/22 16:52	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 16:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/09/22 16:52	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 16:52	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/09/22 16:52	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/09/22 16:52	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 16:52	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/09/22 16:52	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/09/22 16:52	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/09/22 16:52	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 16:52	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/09/22 16:52	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/09/22 16:52	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/09/22 16:52	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 16:52	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 16:52	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/09/22 16:52	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/09/22 16:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/09/22 16:52	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/09/22 16:52	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 16:52	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 16:52	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/09/22 16:52	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/09/22 16:52	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 16:52	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/09/22 16:52	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/09/22 16:52	75-35-4	
cis-1,2-Dichloroethene	32.8	ug/L	1.0	0.47	1		09/09/22 16:52	156-59-2	
trans-1,2-Dichloroethene	1.7	ug/L	1.0	0.53	1		09/09/22 16:52	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/09/22 16:52	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/09/22 16:52	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/09/22 16:52	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/09/22 16:52	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/09/22 16:52	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/09/22 16:52	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 16:52	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 16:52	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/09/22 16:52	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/09/22 16:52	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/09/22 16:52	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/09/22 16:52	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 16:52	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/09/22 16:52	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 16:52	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/09/22 16:52	100-42-5	

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## ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-9**      **Lab ID: 40251085003**      Collected: 09/07/22 14:40      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/09/22 16:52	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/09/22 16:52	79-34-5	
Tetrachloroethene	34.8	ug/L	1.0	0.41	1		09/09/22 16:52	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/09/22 16:52	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/09/22 16:52	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/09/22 16:52	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 16:52	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/09/22 16:52	79-00-5	
Trichloroethene	12.4	ug/L	1.0	0.32	1		09/09/22 16:52	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 16:52	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/09/22 16:52	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/09/22 16:52	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 16:52	108-67-8	
Vinyl chloride	1.9	ug/L	1.0	0.17	1		09/09/22 16:52	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/09/22 16:52	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/09/22 16:52	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/09/22 16:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		09/09/22 16:52	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		09/09/22 16:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-10**      **Lab ID: 40251085004**      Collected: 09/07/22 14:10      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/09/22 17:12	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:12	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/09/22 17:12	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 17:12	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/09/22 17:12	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/09/22 17:12	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 17:12	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/09/22 17:12	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/09/22 17:12	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/09/22 17:12	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 17:12	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/09/22 17:12	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/09/22 17:12	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/09/22 17:12	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 17:12	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 17:12	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/09/22 17:12	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/09/22 17:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/09/22 17:12	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/09/22 17:12	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 17:12	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 17:12	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/09/22 17:12	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/09/22 17:12	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 17:12	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/09/22 17:12	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/09/22 17:12	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/09/22 17:12	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/09/22 17:12	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/09/22 17:12	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/09/22 17:12	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/09/22 17:12	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/09/22 17:12	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:12	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/09/22 17:12	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 17:12	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 17:12	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/09/22 17:12	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/09/22 17:12	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/09/22 17:12	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/09/22 17:12	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 17:12	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/09/22 17:12	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 17:12	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:12	100-42-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-10**      **Lab ID: 40251085004**      Collected: 09/07/22 14:10      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/09/22 17:12	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/09/22 17:12	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/09/22 17:12	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/09/22 17:12	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/09/22 17:12	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/09/22 17:12	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 17:12	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/09/22 17:12	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		09/09/22 17:12	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 17:12	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/09/22 17:12	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/09/22 17:12	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:12	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/09/22 17:12	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/09/22 17:12	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/09/22 17:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/09/22 17:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		09/09/22 17:12	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		09/09/22 17:12	2037-26-5	

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## ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-11**      **Lab ID: 40251085005**      Collected: 09/07/22 13:55      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/09/22 17:32	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:32	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/09/22 17:32	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 17:32	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/09/22 17:32	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/09/22 17:32	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 17:32	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/09/22 17:32	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/09/22 17:32	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/09/22 17:32	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 17:32	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/09/22 17:32	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/09/22 17:32	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/09/22 17:32	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 17:32	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 17:32	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/09/22 17:32	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/09/22 17:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/09/22 17:32	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/09/22 17:32	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 17:32	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 17:32	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/09/22 17:32	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/09/22 17:32	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 17:32	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/09/22 17:32	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/09/22 17:32	75-35-4	
cis-1,2-Dichloroethene	36.0	ug/L	1.0	0.47	1		09/09/22 17:32	156-59-2	
trans-1,2-Dichloroethene	2.2	ug/L	1.0	0.53	1		09/09/22 17:32	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/09/22 17:32	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/09/22 17:32	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/09/22 17:32	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/09/22 17:32	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:32	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/09/22 17:32	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 17:32	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 17:32	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/09/22 17:32	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/09/22 17:32	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/09/22 17:32	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/09/22 17:32	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 17:32	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/09/22 17:32	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 17:32	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:32	100-42-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-11**      **Lab ID: 40251085005**      Collected: 09/07/22 13:55      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/09/22 17:32	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/09/22 17:32	79-34-5	
Tetrachloroethene	14.2	ug/L	1.0	0.41	1		09/09/22 17:32	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/09/22 17:32	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/09/22 17:32	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/09/22 17:32	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 17:32	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/09/22 17:32	79-00-5	
Trichloroethene	6.1	ug/L	1.0	0.32	1		09/09/22 17:32	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 17:32	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/09/22 17:32	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/09/22 17:32	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:32	108-67-8	
Vinyl chloride	2.2	ug/L	1.0	0.17	1		09/09/22 17:32	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/09/22 17:32	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/09/22 17:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/09/22 17:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		09/09/22 17:32	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		09/09/22 17:32	2037-26-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-12**      **Lab ID: 40251085006**      Collected: 09/07/22 13:15      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/09/22 17:51	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:51	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/09/22 17:51	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 17:51	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/09/22 17:51	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/09/22 17:51	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 17:51	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/09/22 17:51	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/09/22 17:51	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/09/22 17:51	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 17:51	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/09/22 17:51	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/09/22 17:51	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/09/22 17:51	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 17:51	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 17:51	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/09/22 17:51	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/09/22 17:51	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/09/22 17:51	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/09/22 17:51	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 17:51	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 17:51	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/09/22 17:51	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/09/22 17:51	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 17:51	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/09/22 17:51	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/09/22 17:51	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/09/22 17:51	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/09/22 17:51	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/09/22 17:51	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/09/22 17:51	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/09/22 17:51	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/09/22 17:51	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:51	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/09/22 17:51	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 17:51	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 17:51	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/09/22 17:51	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/09/22 17:51	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/09/22 17:51	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/09/22 17:51	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 17:51	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/09/22 17:51	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 17:51	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:51	100-42-5	

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## ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-MW-12**      **Lab ID: 40251085006**      Collected: 09/07/22 13:15      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/09/22 17:51	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/09/22 17:51	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/09/22 17:51	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/09/22 17:51	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/09/22 17:51	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/09/22 17:51	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 17:51	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/09/22 17:51	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		09/09/22 17:51	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 17:51	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/09/22 17:51	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/09/22 17:51	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 17:51	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/09/22 17:51	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/09/22 17:51	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/09/22 17:51	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/09/22 17:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		09/09/22 17:51	2199-69-1	
Toluene-d8 (S)	105	%	70-130		1		09/09/22 17:51	2037-26-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-PZ-1**      **Lab ID: 40251085007**      Collected: 09/07/22 14:55      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/09/22 18:11	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 18:11	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/09/22 18:11	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 18:11	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/09/22 18:11	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/09/22 18:11	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 18:11	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/09/22 18:11	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/09/22 18:11	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/09/22 18:11	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 18:11	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/09/22 18:11	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/09/22 18:11	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/09/22 18:11	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 18:11	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 18:11	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/09/22 18:11	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/09/22 18:11	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/09/22 18:11	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/09/22 18:11	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 18:11	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 18:11	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/09/22 18:11	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/09/22 18:11	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 18:11	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/09/22 18:11	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/09/22 18:11	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/09/22 18:11	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/09/22 18:11	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/09/22 18:11	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/09/22 18:11	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/09/22 18:11	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/09/22 18:11	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/09/22 18:11	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/09/22 18:11	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 18:11	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 18:11	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/09/22 18:11	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/09/22 18:11	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/09/22 18:11	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/09/22 18:11	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 18:11	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/09/22 18:11	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 18:11	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/09/22 18:11	100-42-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-PZ-1**      **Lab ID: 40251085007**      Collected: 09/07/22 14:55      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/09/22 18:11	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/09/22 18:11	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/09/22 18:11	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/09/22 18:11	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/09/22 18:11	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/09/22 18:11	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 18:11	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/09/22 18:11	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		09/09/22 18:11	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 18:11	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/09/22 18:11	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/09/22 18:11	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 18:11	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/09/22 18:11	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/09/22 18:11	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/09/22 18:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/09/22 18:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		09/09/22 18:11	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		09/09/22 18:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-DUP-1**      **Lab ID: 40251085008**      Collected: 09/07/22 00:00      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/09/22 18:31	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 18:31	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/09/22 18:31	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 18:31	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/09/22 18:31	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/09/22 18:31	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 18:31	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/09/22 18:31	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/09/22 18:31	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/09/22 18:31	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/09/22 18:31	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/09/22 18:31	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/09/22 18:31	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/09/22 18:31	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 18:31	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/09/22 18:31	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/09/22 18:31	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/09/22 18:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/09/22 18:31	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/09/22 18:31	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 18:31	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 18:31	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/09/22 18:31	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/09/22 18:31	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 18:31	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/09/22 18:31	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/09/22 18:31	75-35-4	
cis-1,2-Dichloroethene	56.8	ug/L	1.0	0.47	1		09/09/22 18:31	156-59-2	
trans-1,2-Dichloroethene	3.9	ug/L	1.0	0.53	1		09/09/22 18:31	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/09/22 18:31	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/09/22 18:31	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/09/22 18:31	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/09/22 18:31	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/09/22 18:31	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/09/22 18:31	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 18:31	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/09/22 18:31	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/09/22 18:31	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/09/22 18:31	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/09/22 18:31	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/09/22 18:31	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/09/22 18:31	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/09/22 18:31	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/09/22 18:31	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/09/22 18:31	100-42-5	

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### ANALYTICAL RESULTS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

**Sample: 6305-DUP-1**      **Lab ID: 40251085008**      Collected: 09/07/22 00:00      Received: 09/08/22 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/09/22 18:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/09/22 18:31	79-34-5	
Tetrachloroethene	37.8	ug/L	1.0	0.41	1		09/09/22 18:31	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/09/22 18:31	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/09/22 18:31	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/09/22 18:31	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/09/22 18:31	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/09/22 18:31	79-00-5	
Trichloroethene	12.5	ug/L	1.0	0.32	1		09/09/22 18:31	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/09/22 18:31	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/09/22 18:31	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/09/22 18:31	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/09/22 18:31	108-67-8	
Vinyl chloride	2.6	ug/L	1.0	0.17	1		09/09/22 18:31	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/09/22 18:31	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/09/22 18:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/09/22 18:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		09/09/22 18:31	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		09/09/22 18:31	2037-26-5	

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**QUALITY CONTROL DATA**

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

QC Batch: 425509 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Laboratory: Pace Analytical Services - Green Bay  
 Associated Lab Samples: 40251085001, 40251085002, 40251085003, 40251085004, 40251085005, 40251085006, 40251085007, 40251085008

METHOD BLANK: 2450436 Matrix: Water  
 Associated Lab Samples: 40251085001, 40251085002, 40251085003, 40251085004, 40251085005, 40251085006, 40251085007, 40251085008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	09/09/22 09:20	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	09/09/22 09:20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	09/09/22 09:20	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	09/09/22 09:20	
1,1-Dichloroethane	ug/L	<0.30	1.0	09/09/22 09:20	
1,1-Dichloroethene	ug/L	<0.58	1.0	09/09/22 09:20	
1,1-Dichloropropene	ug/L	<0.41	1.0	09/09/22 09:20	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	09/09/22 09:20	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	09/09/22 09:20	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	09/09/22 09:20	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	09/09/22 09:20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	09/09/22 09:20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	09/09/22 09:20	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	09/09/22 09:20	
1,2-Dichloroethane	ug/L	<0.29	1.0	09/09/22 09:20	
1,2-Dichloropropane	ug/L	<0.45	1.0	09/09/22 09:20	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	09/09/22 09:20	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	09/09/22 09:20	
1,3-Dichloropropane	ug/L	<0.30	1.0	09/09/22 09:20	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	09/09/22 09:20	
2,2-Dichloropropane	ug/L	<4.2	5.0	09/09/22 09:20	
2-Chlorotoluene	ug/L	<0.89	5.0	09/09/22 09:20	
4-Chlorotoluene	ug/L	<0.89	5.0	09/09/22 09:20	
Benzene	ug/L	<0.30	1.0	09/09/22 09:20	
Bromobenzene	ug/L	<0.36	1.0	09/09/22 09:20	
Bromochloromethane	ug/L	<0.36	5.0	09/09/22 09:20	
Bromodichloromethane	ug/L	<0.42	1.0	09/09/22 09:20	
Bromoform	ug/L	<3.8	5.0	09/09/22 09:20	
Bromomethane	ug/L	<1.2	5.0	09/09/22 09:20	
Carbon tetrachloride	ug/L	<0.37	1.0	09/09/22 09:20	
Chlorobenzene	ug/L	<0.86	1.0	09/09/22 09:20	
Chloroethane	ug/L	<1.4	5.0	09/09/22 09:20	
Chloroform	ug/L	<1.2	5.0	09/09/22 09:20	
Chloromethane	ug/L	<1.6	5.0	09/09/22 09:20	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	09/09/22 09:20	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	09/09/22 09:20	
Dibromochloromethane	ug/L	<2.6	5.0	09/09/22 09:20	
Dibromomethane	ug/L	<0.99	5.0	09/09/22 09:20	
Dichlorodifluoromethane	ug/L	<0.46	5.0	09/09/22 09:20	

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### QUALITY CONTROL DATA

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

METHOD BLANK: 2450436

Matrix: Water

Associated Lab Samples: 40251085001, 40251085002, 40251085003, 40251085004, 40251085005, 40251085006, 40251085007, 40251085008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	09/09/22 09:20	
Ethylbenzene	ug/L	<0.33	1.0	09/09/22 09:20	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	09/09/22 09:20	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	09/09/22 09:20	
m&p-Xylene	ug/L	<0.70	2.0	09/09/22 09:20	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	09/09/22 09:20	
Methylene Chloride	ug/L	<0.32	5.0	09/09/22 09:20	
n-Butylbenzene	ug/L	<0.86	1.0	09/09/22 09:20	
n-Propylbenzene	ug/L	<0.35	1.0	09/09/22 09:20	
Naphthalene	ug/L	<1.1	5.0	09/09/22 09:20	
o-Xylene	ug/L	<0.35	1.0	09/09/22 09:20	
p-Isopropyltoluene	ug/L	<1.0	5.0	09/09/22 09:20	
sec-Butylbenzene	ug/L	<0.42	1.0	09/09/22 09:20	
Styrene	ug/L	<0.36	1.0	09/09/22 09:20	
tert-Butylbenzene	ug/L	<0.59	1.0	09/09/22 09:20	
Tetrachloroethene	ug/L	<0.41	1.0	09/09/22 09:20	
Toluene	ug/L	<0.29	1.0	09/09/22 09:20	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	09/09/22 09:20	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	09/09/22 09:20	
Trichloroethene	ug/L	<0.32	1.0	09/09/22 09:20	
Trichlorofluoromethane	ug/L	<0.42	1.0	09/09/22 09:20	
Vinyl chloride	ug/L	<0.17	1.0	09/09/22 09:20	
1,2-Dichlorobenzene-d4 (S)	%	97	70-130	09/09/22 09:20	
4-Bromofluorobenzene (S)	%	101	70-130	09/09/22 09:20	
Toluene-d8 (S)	%	104	70-130	09/09/22 09:20	

LABORATORY CONTROL SAMPLE: 2450437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.9	104	70-134	
1,1,1,2-Tetrachloroethane	ug/L	50	45.6	91	69-130	
1,1,2-Trichloroethane	ug/L	50	50.0	100	70-130	
1,1-Dichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethene	ug/L	50	46.3	93	74-131	
1,2,4-Trichlorobenzene	ug/L	50	44.8	90	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.0	84	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	47.1	94	70-130	
1,2-Dichloroethane	ug/L	50	49.6	99	70-137	
1,2-Dichloropropane	ug/L	50	47.1	94	80-121	
1,3-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,4-Dichlorobenzene	ug/L	50	48.5	97	70-130	
Benzene	ug/L	50	47.6	95	70-130	

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### QUALITY CONTROL DATA

Project: 6305 FORMER PETERS DRY CLEANER  
Pace Project No.: 40251085

LABORATORY CONTROL SAMPLE: 2450437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	48.4	97	70-130	
Bromoform	ug/L	50	52.7	105	70-130	
Bromomethane	ug/L	50	22.9	46	21-147	
Carbon tetrachloride	ug/L	50	54.2	108	80-146	
Chlorobenzene	ug/L	50	50.1	100	70-130	
Chloroethane	ug/L	50	44.6	89	52-165	
Chloroform	ug/L	50	51.4	103	80-123	
Chloromethane	ug/L	50	32.6	65	51-122	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	70-130	
Dibromochloromethane	ug/L	50	51.1	102	70-130	
Dichlorodifluoromethane	ug/L	50	21.2	42	25-121	
Ethylbenzene	ug/L	50	50.2	100	80-120	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	70-130	
m&p-Xylene	ug/L	100	97.2	97	70-130	
Methyl-tert-butyl ether	ug/L	50	51.4	103	70-130	
Methylene Chloride	ug/L	50	50.8	102	70-130	
o-Xylene	ug/L	50	47.7	95	70-130	
Styrene	ug/L	50	51.6	103	70-130	
Tetrachloroethene	ug/L	50	50.3	101	70-130	
Toluene	ug/L	50	48.9	98	80-120	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.5	97	70-130	
Trichloroethene	ug/L	50	50.9	102	70-130	
Trichlorofluoromethane	ug/L	50	48.8	98	65-160	
Vinyl chloride	ug/L	50	38.1	76	63-134	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2450570 2450571

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40251039001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	51.8	54.7	104	109	70-134	5	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	48.0	47.5	96	95	61-135	1	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	49.5	50.5	99	101	70-130	2	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	47.0	50.1	94	100	70-130	6	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	45.0	47.9	90	96	71-130	6	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.3	47.4	97	95	68-131	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	43.0	43.1	86	86	51-141	0	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	49.4	50.8	99	102	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	49.8	50.9	100	102	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	48.7	51.5	97	103	70-137	6	20		

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### QUALITY CONTROL DATA

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

Parameter	Units	40251039001		MS		MSD		2450570		2450571		Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	Max RPD		
1,2-Dichloropropane	ug/L	<0.45	50	50	46.3	49.6	93	99	80-121	7	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	53.3	54.1	107	108	70-130	2	20	
1,4-Dichlorobenzene	ug/L	0.94J	50	50	52.3	52.0	103	102	70-130	0	20	
Benzene	ug/L	<0.30	50	50	47.4	51.0	95	102	70-130	7	20	
Bromodichloromethane	ug/L	<0.42	50	50	46.3	51.3	93	103	70-130	10	20	
Bromoform	ug/L	<3.8	50	50	53.4	55.0	107	110	70-133	3	20	
Bromomethane	ug/L	<1.2	50	50	23.8	26.4	48	53	21-149	10	22	
Carbon tetrachloride	ug/L	<0.37	50	50	53.7	56.0	107	112	80-146	4	20	
Chlorobenzene	ug/L	2.6	50	50	55.1	55.5	105	106	70-130	1	20	
Chloroethane	ug/L	<1.4	50	50	43.3	46.2	87	92	52-165	6	20	
Chloroform	ug/L	<1.2	50	50	51.3	55.3	103	111	80-123	7	20	
Chloromethane	ug/L	<1.6	50	50	32.2	35.1	64	70	42-125	9	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	48.3	52.2	97	104	70-130	8	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	48.2	51.2	96	102	70-130	6	20	
Dibromochloromethane	ug/L	<2.6	50	50	53.4	53.0	107	106	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	19.4	20.7	39	41	25-121	7	20	
Ethylbenzene	ug/L	<0.33	50	50	51.9	52.3	104	105	80-121	1	20	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.5	53.6	107	107	70-130	0	20	
m&p-Xylene	ug/L	<0.70	100	100	101	101	101	101	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	49.8	55.2	100	110	70-130	10	20	
Methylene Chloride	ug/L	<0.32	50	50	50.9	54.6	102	109	70-130	7	20	
o-Xylene	ug/L	<0.35	50	50	51.5	52.1	103	104	70-130	1	20	
Styrene	ug/L	<0.36	50	50	53.5	55.6	107	111	70-132	4	20	
Tetrachloroethene	ug/L	<0.41	50	50	52.8	51.6	106	103	70-130	2	20	
Toluene	ug/L	<0.29	50	50	50.0	52.2	100	104	80-120	4	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	51.7	54.9	103	110	70-130	6	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	50.5	50.0	101	100	70-130	1	20	
Trichloroethene	ug/L	<0.32	50	50	50.9	53.3	102	107	70-130	5	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	47.4	49.9	95	100	65-160	5	20	
Vinyl chloride	ug/L	<0.17	50	50	38.3	39.9	77	80	60-137	4	20	
1,2-Dichlorobenzene-d4 (S)	%						96	99	70-130			
4-Bromofluorobenzene (S)	%						98	100	70-130			
Toluene-d8 (S)	%						106	103	70-130			

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## QUALIFIERS

Project: 6305 FORMER PETERS DRY CLEANER

Pace Project No.: 40251085

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6305 FORMER PETERS DRY CLEANER  
Pace Project No.: 40251085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40251085001	6305-MW-5	EPA 8260	425509		
40251085002	6305-MW-8	EPA 8260	425509		
40251085003	6305-MW-9	EPA 8260	425509		
40251085004	6305-MW-10	EPA 8260	425509		
40251085005	6305-MW-11	EPA 8260	425509		
40251085006	6305-MW-12	EPA 8260	425509		
40251085007	6305-PZ-1	EPA 8260	425509		
40251085008	6305-DUP-1	EPA 8260	425509		

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### CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40251085

**ALL SHADED AREAS are for LAB USE ONLY**

Company: **EnviroForensics**

Billing Information: **accounts payable enviroforensics.com**

Address: **N16W23390 Store Ridge Dr Waukesha, WI 53188**

Report To: **Rob Hoverman**

Copy To: **rhoverman@enviroforensics.com**

Customer Project Name/Number: **6305**

**Former Peters Dry Cleaners**

Site Collection Info/Address: **5094 W College Ave WI Greendale [ ] PT [ ] MT [ X ] CT [ ] ET**

Phone: **262-290-4001** Site/Facility ID #: **6305**

Email: **rhoverman@enviroforensics.com**

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): **R. Brown**

Purchase Order #: **2022-0424**

Quote #: \_\_\_\_\_

Collected By (signature): **[Signature]**

Turnaround Date Required: \_\_\_\_\_

Immediately Packed on Ice:  Yes [ ] No

Sample Disposal:  Dispose as appropriate [ ] Return [ ] Archive: \_\_\_\_\_ [ ] Hold: \_\_\_\_\_

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes  No

Analysis: \_\_\_\_\_

Container Preservative Type \*\*

Lab Project Manager: \_\_\_\_\_

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analyses	Lab Profile/Line:
			Date	Time	Date	Time				
6305-MW-5	GW	5	9-7-22	1510				3	X VOC-EPA 8260	<p>Lab Sample Receipt Checklist:</p> <p>Custody Seals Present/Intact Y N NA</p> <p>Custody Signatures Present Y N NA</p> <p>Collector Signature Present Y N NA</p> <p>Bottles Intact Y N NA</p> <p>Correct Boxes Y N NA</p> <p>Sufficient Volume Y N NA</p> <p>Samples Received on Ice Y N NA</p> <p>VOA - Headspace Acceptable Y N NA</p> <p>USDA Regulate Soils Y N NA</p> <p>Sample in Holding Time Y N NA</p> <p>Residual Chlorine Present Y N NA</p> <p>Cl Strips: _____</p> <p>Sample pH Acceptable Y N NA</p> <p>pH Strips: _____</p> <p>Sulfide Present Y N NA</p> <p>Lead Acetate Strips: _____</p> <p>LAB USE ONLY:</p> <p>Lab Sample # / Comments:</p>
6305-MW-8				1420						
6305-MW-9				1440						
6305-MW-10				1410						
6305-MW-11				1355						
6305-MW-12				1315						
6305-PE-1				1455						
6305-DUP-1				-						
Trip Blank ①										

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Remarks / Special Conditions / Possible Hazards: **① In shipment Lab added to COC 9/8/22 SW**

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: \_\_\_\_\_

Lab Tracking #: **2828703**

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info: Temp Blank Received: Y N NA

Therm ID#: \_\_\_\_\_

Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C

Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C

Cooler 1 Corrected Temp: \_\_\_\_\_ °C

Comments: \_\_\_\_\_

Relinquished by/Company: (Signature) <b>RTL Enviroforensics</b>	Date/Time: <b>9-7-22 1540</b>	Received by/Company: (Signature) <b>CS Logistics</b>	Date/Time: <b>9-7-22 1540</b>	MTJL LAB USE ONLY
Relinquished by/Company: (Signature) <b>CS Logistics</b>	Date/Time: <b>9/8/22 0950</b>	Received by/Company: (Signature) <b>Susan Miller Pay</b>	Date/Time: <b>9/8/22 0950</b>	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	



Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Enviro Forensics

WO#: 40251085

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used SR - 117 Type of Ice:  Blue  Dry  None  Meltwater Only

Cooler Temperature Uncorr: 15 / Corr: 0

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:  
 Date: 9/8/22 / Initials: SW  
 Labeled By Initials: ME

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Box</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>In shipment Lab added to COC</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>486</u>
Pace Trip Blank Lot # (if purchased):	<u>486</u>	<u>9/8/22 SW</u>

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

January 05, 2023

Robert Hoverman  
EnviroForensics  
N16 W23390 Stone Ridge Drive  
Suite G  
Waukesha, WI 53188

RE: Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

Dear Robert Hoverman:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

### **Pace Analytical Services, LLC - Minneapolis MN**

1700 Elm Street SE, Minneapolis, MN 55414  
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01\*  
Alabama Certification #: 40770  
Alaska Contaminated Sites Certification #: 17-009\*  
Alaska DW Certification #: MN00064  
Arizona Certification #: AZ0014\*  
Arkansas DW Certification #: MN00064  
Arkansas WW Certification #: 88-0680  
California Certification #: 2929  
Colorado Certification #: MN00064  
Connecticut Certification #: PH-0256  
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137  
Florida Certification #: E87605\*  
Georgia Certification #: 959  
GMP+ Certification #: GMP050884  
Hawaii Certification #: MN00064  
Idaho Certification #: MN00064  
Illinois Certification #: 200011  
Indiana Certification #: C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky DW Certification #: 90062  
Kentucky WW Certification #: 90062  
Louisiana DEQ Certification #: AI-03086\*  
Louisiana DW Certification #: MN00064  
Maine Certification #: MN00064\*  
Maryland Certification #: 322  
Michigan Certification #: 9909  
Minnesota Certification #: 027-053-137\*  
Minnesota Dept of Ag Approval: via MN 027-053-137  
Minnesota Petrofund Registration #: 1240\*  
Mississippi Certification #: MN00064

Missouri Certification #: 10100  
Montana Certification #: CERT0092  
Nebraska Certification #: NE-OS-18-06  
Nevada Certification #: MN00064  
New Hampshire Certification #: 2081\*  
New Jersey Certification #: MN002  
New York Certification #: 11647\*  
North Carolina DW Certification #: 27700  
North Carolina WW Certification #: 530  
North Dakota Certification (A2LA) #: R-036  
North Dakota Certification (MN) #: R-036  
Ohio DW Certification #: 41244  
Ohio VAP Certification (1700) #: CL101  
Ohio VAP Certification (1800) #: CL110\*  
Oklahoma Certification #: 9507\*  
Oregon Primary Certification #: MN300001  
Oregon Secondary Certification #: MN200001\*  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification #: MN00064  
South Carolina Certification #:74003001  
Tennessee Certification #: TN02818  
Texas Certification #: T104704192\*  
Utah Certification #: MN00064\*  
Vermont Certification #: VT-027053137  
Virginia Certification #: 460163\*  
Washington Certification #: C486\*  
West Virginia DEP Certification #: 382  
West Virginia DW Certification #: 9952 C  
Wisconsin Certification #: 999407970  
Wyoming UST Certification #: via A2LA 2926.01  
USDA Permit #: P330-19-00208  
\*Please Note: Applicable air certifications are denoted with an asterisk (\*).

### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky UST Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334  
New York Certification #: 12064  
North Dakota Certification #: R-150

South Carolina Certification #: 83006001  
Texas Certification #: T104704529-21-8  
Virginia VELAP Certification ID: 11873  
Wisconsin Certification #: 405132750  
Wisconsin DATCP Certification #: 105-444  
USDA Soil Permit #: P330-21-00008  
Federal Fish & Wildlife Permit #: 51774A

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40256376001	6305-MW-5	Water	12/21/22 13:40	12/22/22 07:45
40256376002	6305-MW-8	Water	12/21/22 12:55	12/22/22 07:45
40256376003	6305-MW-9	Water	12/21/22 13:15	12/22/22 07:45
40256376004	6305-MW-11	Water	12/21/22 12:30	12/22/22 07:45
40256376005	6305-MW-12	Water	12/21/22 12:20	12/22/22 07:45
40256376006	6305-PZ-1	Water	12/21/22 13:25	12/22/22 07:45
40256376007	TRIP BLANK	Water	12/21/22 00:00	12/22/22 07:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40256376001	6305-MW-5	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	2	PASI-G
		EPA 6010D	SIS	2	PASI-G
		EPA 8260	JAV	64	PASI-G
		EPA 300.0	KEO	2	PASI-M
		EPA 353.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40256376002	6305-MW-8	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	2	PASI-G
		EPA 6010D	SIS	2	PASI-G
		EPA 8260	JAV	64	PASI-G
		EPA 300.0	KEO	2	PASI-M
		EPA 353.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40256376003	6305-MW-9	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	2	PASI-G
		EPA 6010D	SIS	2	PASI-G
		EPA 8260	JAV	64	PASI-G
		EPA 300.0	KEO	2	PASI-M
		EPA 353.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40256376004	6305-MW-11	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	2	PASI-G
		EPA 6010D	SIS	2	PASI-G
		EPA 8260	JAV	64	PASI-G
		EPA 300.0	KEO	2	PASI-M
		EPA 353.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40256376005	6305-MW-12	EPA 8260	CXJ	64	PASI-G
40256376006	6305-PZ-1	EPA 8260	CXJ	64	PASI-G
40256376007	TRIP BLANK	EPA 8260	CXJ	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay  
PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40256376001</b>	<b>6305-MW-5</b>					
EPA 6010D	Iron	8370	ug/L	100	12/28/22 20:15	
EPA 6010D	Manganese	125	ug/L	5.0	12/28/22 20:15	
EPA 6010D	Iron, Dissolved	2200	ug/L	100	01/04/23 14:27	
EPA 6010D	Manganese, Dissolved	43.4	ug/L	5.0	01/04/23 14:27	
EPA 8260	cis-1,2-Dichloroethene	33.5	ug/L	1.0	12/27/22 16:23	
EPA 8260	trans-1,2-Dichloroethene	1.2	ug/L	1.0	12/27/22 16:23	L1
EPA 8260	Tetrachloroethene	1.5	ug/L	1.0	12/27/22 16:23	
EPA 8260	Trichloroethene	2.1	ug/L	1.0	12/27/22 16:23	
EPA 8260	Vinyl chloride	0.30J	ug/L	1.0	12/27/22 16:23	
EPA 300.0	Chloride	96.9	mg/L	6.0	01/05/23 08:50	
EPA 300.0	Sulfate	290	mg/L	6.0	01/05/23 08:50	
SM 5310C	Total Organic Carbon	2.4	mg/L	0.50	12/29/22 01:05	
<b>40256376002</b>	<b>6305-MW-8</b>					
EPA 8015B Modified	Methane	17.0	ug/L	2.8	12/27/22 15:06	
EPA 6010D	Iron	4800	ug/L	100	12/28/22 20:17	
EPA 6010D	Manganese	123	ug/L	5.0	12/28/22 20:17	
EPA 6010D	Iron, Dissolved	1330	ug/L	100	01/04/23 14:30	
EPA 6010D	Manganese, Dissolved	41.7	ug/L	5.0	01/04/23 14:30	
EPA 8260	cis-1,2-Dichloroethene	30.7	ug/L	1.0	12/27/22 16:43	
EPA 8260	trans-1,2-Dichloroethene	2.2	ug/L	1.0	12/27/22 16:43	L1
EPA 8260	Tetrachloroethene	20.6	ug/L	1.0	12/27/22 16:43	
EPA 8260	Trichloroethene	7.0	ug/L	1.0	12/27/22 16:43	
EPA 8260	Vinyl chloride	0.70J	ug/L	1.0	12/27/22 16:43	
EPA 300.0	Chloride	358	mg/L	12.0	01/05/23 01:49	
EPA 300.0	Sulfate	49.6	mg/L	1.2	01/04/23 23:35	M1
SM 5310C	Total Organic Carbon	1.8	mg/L	0.50	12/29/22 01:59	
<b>40256376003</b>	<b>6305-MW-9</b>					
EPA 8015B Modified	Methane	12.2	ug/L	2.8	12/27/22 15:13	
EPA 6010D	Iron	31600	ug/L	100	12/28/22 20:19	
EPA 6010D	Manganese	723	ug/L	5.0	12/28/22 20:19	
EPA 6010D	Iron, Dissolved	3280	ug/L	100	01/04/23 14:32	
EPA 6010D	Manganese, Dissolved	84.1	ug/L	5.0	01/04/23 14:32	
EPA 8260	cis-1,2-Dichloroethene	17.9	ug/L	1.0	12/27/22 17:03	
EPA 8260	trans-1,2-Dichloroethene	1.3	ug/L	1.0	12/27/22 17:03	L1
EPA 8260	Tetrachloroethene	22.2	ug/L	1.0	12/27/22 17:03	
EPA 8260	Trichloroethene	8.1	ug/L	1.0	12/27/22 17:03	
EPA 300.0	Chloride	406	mg/L	12.0	01/05/23 08:32	
EPA 300.0	Sulfate	58.2	mg/L	1.2	01/05/23 04:32	
EPA 353.2	Nitrogen, NO2 plus NO3	0.16J	mg/L	0.25	01/05/23 13:00	
SM 5310C	Total Organic Carbon	1.3	mg/L	0.50	12/29/22 02:19	
<b>40256376004</b>	<b>6305-MW-11</b>					
EPA 8015B Modified	Methane	33.4	ug/L	2.8	12/27/22 15:20	
EPA 6010D	Iron	4970	ug/L	100	12/28/22 20:21	
EPA 6010D	Manganese	334	ug/L	5.0	12/28/22 20:21	
EPA 6010D	Iron, Dissolved	616	ug/L	100	01/04/23 14:38	
EPA 6010D	Manganese, Dissolved	265	ug/L	5.0	01/04/23 14:38	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40256376004</b>	<b>6305-MW-11</b>					
EPA 8260	cis-1,2-Dichloroethene	42.9	ug/L	1.0	12/27/22 17:23	
EPA 8260	trans-1,2-Dichloroethene	3.2	ug/L	1.0	12/27/22 17:23	L1
EPA 8260	Tetrachloroethene	16.9	ug/L	1.0	12/27/22 17:23	
EPA 8260	Trichloroethene	8.2	ug/L	1.0	12/27/22 17:23	
EPA 8260	Vinyl chloride	2.1	ug/L	1.0	12/27/22 17:23	
EPA 300.0	Chloride	1340	mg/L	120	01/05/23 08:15	
EPA 300.0	Sulfate	8650	mg/L	120	01/05/23 08:15	
SM 5310C	Total Organic Carbon	2.7	mg/L	1.0	12/29/22 02:38	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

**Sample: 6305-MW-5**      **Lab ID: 40256376001**      Collected: 12/21/22 13:40      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Ethane	<0.39	ug/L	5.6	0.39	1		12/27/22 14:59	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		12/27/22 14:59	74-85-1	
Methane	<0.58	ug/L	2.8	0.58	1		12/27/22 14:59	74-82-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Iron	8370	ug/L	100	56.7	1	12/27/22 05:22	12/28/22 20:15	7439-89-6	
Manganese	125	ug/L	5.0	1.5	1	12/27/22 05:22	12/28/22 20:15	7439-96-5	
<b>6010D MET ICP, Dissolved</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Iron, Dissolved	2200	ug/L	100	56.7	1	01/04/23 05:21	01/04/23 14:27	7439-89-6	
Manganese, Dissolved	43.4	ug/L	5.0	1.5	1	01/04/23 05:21	01/04/23 14:27	7439-96-5	
<b>8260 MSV</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		12/27/22 16:23	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 16:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/27/22 16:23	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 16:23	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/27/22 16:23	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/27/22 16:23	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 16:23	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/27/22 16:23	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/27/22 16:23	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/27/22 16:23	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 16:23	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/27/22 16:23	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/27/22 16:23	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/27/22 16:23	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 16:23	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 16:23	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/27/22 16:23	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/27/22 16:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/27/22 16:23	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/27/22 16:23	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 16:23	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 16:23	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/27/22 16:23	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/27/22 16:23	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 16:23	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/27/22 16:23	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/27/22 16:23	75-35-4	
cis-1,2-Dichloroethene	33.5	ug/L	1.0	0.47	1		12/27/22 16:23	156-59-2	
trans-1,2-Dichloroethene	1.2	ug/L	1.0	0.53	1		12/27/22 16:23	156-60-5	L1

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

**Sample: 6305-MW-5**      **Lab ID: 40256376001**      Collected: 12/21/22 13:40      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/27/22 16:23	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/27/22 16:23	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/27/22 16:23	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/27/22 16:23	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/27/22 16:23	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/27/22 16:23	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 16:23	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 16:23	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/27/22 16:23	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/27/22 16:23	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/27/22 16:23	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/27/22 16:23	75-09-2	L1
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 16:23	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		12/27/22 16:23	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 16:23	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		12/27/22 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		12/27/22 16:23	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/27/22 16:23	79-34-5	
Tetrachloroethene	1.5	ug/L	1.0	0.41	1		12/27/22 16:23	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/22 16:23	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/27/22 16:23	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/27/22 16:23	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 16:23	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/27/22 16:23	79-00-5	
Trichloroethene	2.1	ug/L	1.0	0.32	1		12/27/22 16:23	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 16:23	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/27/22 16:23	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/22 16:23	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 16:23	108-67-8	
Vinyl chloride	0.30J	ug/L	1.0	0.17	1		12/27/22 16:23	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/22 16:23	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/22 16:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/27/22 16:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		12/27/22 16:23	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		12/27/22 16:23	2037-26-5	

**300.0 IC Anions**

Analytical Method: EPA 300.0  
Pace Analytical Services - Minneapolis

Chloride	96.9	mg/L	6.0	1.9	5		01/05/23 08:50	16887-00-6	
Sulfate	290	mg/L	6.0	2.1	5		01/05/23 08:50	14808-79-8	

**353.2 Nitrogen, NO2/NO3 pres.**

Analytical Method: EPA 353.2  
Pace Analytical Services - Green Bay

Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		01/05/23 12:59		
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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

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**Sample: 6305-MW-5**      **Lab ID: 40256376001**      Collected: 12/21/22 13:40      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>5310C TOC</b>									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	2.4	mg/L	0.50	0.14	1		12/29/22 01:05	7440-44-0	

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

**Sample: 6305-MW-8**      **Lab ID: 40256376002**      Collected: 12/21/22 12:55      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Ethane	<0.39	ug/L	5.6	0.39	1		12/27/22 15:06	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		12/27/22 15:06	74-85-1	
Methane	17.0	ug/L	2.8	0.58	1		12/27/22 15:06	74-82-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Iron	4800	ug/L	100	56.7	1	12/27/22 05:22	12/28/22 20:17	7439-89-6	
Manganese	123	ug/L	5.0	1.5	1	12/27/22 05:22	12/28/22 20:17	7439-96-5	
<b>6010D MET ICP, Dissolved</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Iron, Dissolved	1330	ug/L	100	56.7	1	01/04/23 05:21	01/04/23 14:30	7439-89-6	
Manganese, Dissolved	41.7	ug/L	5.0	1.5	1	01/04/23 05:21	01/04/23 14:30	7439-96-5	
<b>8260 MSV</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		12/27/22 16:43	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 16:43	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/27/22 16:43	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 16:43	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/27/22 16:43	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/27/22 16:43	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 16:43	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/27/22 16:43	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/27/22 16:43	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/27/22 16:43	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 16:43	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/27/22 16:43	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/27/22 16:43	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/27/22 16:43	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 16:43	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 16:43	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/27/22 16:43	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/27/22 16:43	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/27/22 16:43	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/27/22 16:43	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 16:43	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 16:43	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/27/22 16:43	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/27/22 16:43	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 16:43	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/27/22 16:43	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/27/22 16:43	75-35-4	
cis-1,2-Dichloroethene	30.7	ug/L	1.0	0.47	1		12/27/22 16:43	156-59-2	
trans-1,2-Dichloroethene	2.2	ug/L	1.0	0.53	1		12/27/22 16:43	156-60-5	L1

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

**Sample: 6305-MW-8**      **Lab ID: 40256376002**      Collected: 12/21/22 12:55      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/27/22 16:43	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/27/22 16:43	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/27/22 16:43	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/27/22 16:43	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/27/22 16:43	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/27/22 16:43	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 16:43	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 16:43	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/27/22 16:43	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/27/22 16:43	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/27/22 16:43	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/27/22 16:43	75-09-2	L1
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 16:43	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		12/27/22 16:43	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 16:43	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		12/27/22 16:43	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		12/27/22 16:43	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/27/22 16:43	79-34-5	
Tetrachloroethene	20.6	ug/L	1.0	0.41	1		12/27/22 16:43	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/22 16:43	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/27/22 16:43	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/27/22 16:43	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 16:43	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/27/22 16:43	79-00-5	
Trichloroethene	7.0	ug/L	1.0	0.32	1		12/27/22 16:43	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 16:43	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/27/22 16:43	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/22 16:43	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 16:43	108-67-8	
Vinyl chloride	0.70J	ug/L	1.0	0.17	1		12/27/22 16:43	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/22 16:43	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/22 16:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/27/22 16:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		12/27/22 16:43	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		12/27/22 16:43	2037-26-5	

<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Minneapolis									
Chloride	358	mg/L	12.0	3.9	10		01/05/23 01:49	16887-00-6	
Sulfate	49.6	mg/L	1.2	0.43	1		01/04/23 23:35	14808-79-8	M1
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		01/05/23 12:59		

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

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**Sample: 6305-MW-8**      **Lab ID: 40256376002**      Collected: 12/21/22 12:55      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>5310C TOC</b>									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	1.8	mg/L	0.50	0.14	1		12/29/22 01:59	7440-44-0	

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

**Sample: 6305-MW-9**      **Lab ID: 40256376003**      Collected: 12/21/22 13:15      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Ethane	<0.39	ug/L	5.6	0.39	1		12/27/22 15:13	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		12/27/22 15:13	74-85-1	
Methane	12.2	ug/L	2.8	0.58	1		12/27/22 15:13	74-82-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Iron	31600	ug/L	100	56.7	1	12/27/22 05:22	12/28/22 20:19	7439-89-6	
Manganese	723	ug/L	5.0	1.5	1	12/27/22 05:22	12/28/22 20:19	7439-96-5	
<b>6010D MET ICP, Dissolved</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Iron, Dissolved	3280	ug/L	100	56.7	1	01/04/23 05:21	01/04/23 14:32	7439-89-6	
Manganese, Dissolved	84.1	ug/L	5.0	1.5	1	01/04/23 05:21	01/04/23 14:32	7439-96-5	
<b>8260 MSV</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		12/27/22 17:03	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 17:03	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/27/22 17:03	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 17:03	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/27/22 17:03	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/27/22 17:03	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 17:03	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/27/22 17:03	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/27/22 17:03	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/27/22 17:03	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 17:03	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/27/22 17:03	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/27/22 17:03	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/27/22 17:03	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 17:03	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 17:03	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/27/22 17:03	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/27/22 17:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/27/22 17:03	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/27/22 17:03	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 17:03	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 17:03	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/27/22 17:03	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/27/22 17:03	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 17:03	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/27/22 17:03	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/27/22 17:03	75-35-4	
cis-1,2-Dichloroethene	17.9	ug/L	1.0	0.47	1		12/27/22 17:03	156-59-2	
trans-1,2-Dichloroethene	1.3	ug/L	1.0	0.53	1		12/27/22 17:03	156-60-5	L1

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

**Sample: 6305-MW-9**      **Lab ID: 40256376003**      Collected: 12/21/22 13:15      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/27/22 17:03	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/27/22 17:03	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/27/22 17:03	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/27/22 17:03	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/27/22 17:03	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/27/22 17:03	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 17:03	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 17:03	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/27/22 17:03	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/27/22 17:03	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/27/22 17:03	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/27/22 17:03	75-09-2	L1
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 17:03	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		12/27/22 17:03	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 17:03	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		12/27/22 17:03	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		12/27/22 17:03	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/27/22 17:03	79-34-5	
Tetrachloroethene	22.2	ug/L	1.0	0.41	1		12/27/22 17:03	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/22 17:03	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/27/22 17:03	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/27/22 17:03	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 17:03	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/27/22 17:03	79-00-5	
Trichloroethene	8.1	ug/L	1.0	0.32	1		12/27/22 17:03	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 17:03	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/27/22 17:03	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/22 17:03	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 17:03	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/27/22 17:03	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/22 17:03	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/22 17:03	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/27/22 17:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		12/27/22 17:03	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		12/27/22 17:03	2037-26-5	

**300.0 IC Anions**

Analytical Method: EPA 300.0  
Pace Analytical Services - Minneapolis

Chloride	406	mg/L	12.0	3.9	10		01/05/23 08:32	16887-00-6	
Sulfate	58.2	mg/L	1.2	0.43	1		01/05/23 04:32	14808-79-8	

**353.2 Nitrogen, NO2/NO3 pres.**

Analytical Method: EPA 353.2  
Pace Analytical Services - Green Bay

Nitrogen, NO2 plus NO3	0.16J	mg/L	0.25	0.059	1		01/05/23 13:00		
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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

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**Sample: 6305-MW-9**      **Lab ID: 40256376003**      Collected: 12/21/22 13:15      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>5310C TOC</b>									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	1.3	mg/L	0.50	0.14	1		12/29/22 02:19	7440-44-0	

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

**Sample: 6305-MW-11**      **Lab ID: 40256376004**      Collected: 12/21/22 12:30      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Ethane	<0.39	ug/L	5.6	0.39	1		12/27/22 15:20	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		12/27/22 15:20	74-85-1	
Methane	33.4	ug/L	2.8	0.58	1		12/27/22 15:20	74-82-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Iron	4970	ug/L	100	56.7	1	12/27/22 05:22	12/28/22 20:21	7439-89-6	
Manganese	334	ug/L	5.0	1.5	1	12/27/22 05:22	12/28/22 20:21	7439-96-5	
<b>6010D MET ICP, Dissolved</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Iron, Dissolved	616	ug/L	100	56.7	1	01/04/23 05:21	01/04/23 14:38	7439-89-6	
Manganese, Dissolved	265	ug/L	5.0	1.5	1	01/04/23 05:21	01/04/23 14:38	7439-96-5	
<b>8260 MSV</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		12/27/22 17:23	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 17:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/27/22 17:23	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 17:23	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/27/22 17:23	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/27/22 17:23	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 17:23	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/27/22 17:23	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/27/22 17:23	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/27/22 17:23	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 17:23	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/27/22 17:23	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/27/22 17:23	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/27/22 17:23	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 17:23	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 17:23	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/27/22 17:23	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/27/22 17:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/27/22 17:23	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/27/22 17:23	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 17:23	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 17:23	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/27/22 17:23	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/27/22 17:23	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 17:23	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/27/22 17:23	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/27/22 17:23	75-35-4	
cis-1,2-Dichloroethene	42.9	ug/L	1.0	0.47	1		12/27/22 17:23	156-59-2	
trans-1,2-Dichloroethene	3.2	ug/L	1.0	0.53	1		12/27/22 17:23	156-60-5	L1

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

Sample: 6305-MW-11 Lab ID: 40256376004 Collected: 12/21/22 12:30 Received: 12/22/22 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/27/22 17:23	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/27/22 17:23	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/27/22 17:23	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/27/22 17:23	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/27/22 17:23	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/27/22 17:23	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 17:23	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 17:23	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/27/22 17:23	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/27/22 17:23	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/27/22 17:23	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/27/22 17:23	75-09-2	L1
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 17:23	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		12/27/22 17:23	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 17:23	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		12/27/22 17:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		12/27/22 17:23	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/27/22 17:23	79-34-5	
Tetrachloroethene	16.9	ug/L	1.0	0.41	1		12/27/22 17:23	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/22 17:23	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/27/22 17:23	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/27/22 17:23	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 17:23	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/27/22 17:23	79-00-5	
Trichloroethene	8.2	ug/L	1.0	0.32	1		12/27/22 17:23	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 17:23	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/27/22 17:23	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/22 17:23	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 17:23	108-67-8	
Vinyl chloride	2.1	ug/L	1.0	0.17	1		12/27/22 17:23	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/22 17:23	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/22 17:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/27/22 17:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		12/27/22 17:23	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		12/27/22 17:23	2037-26-5	

### 300.0 IC Anions

Analytical Method: EPA 300.0

Pace Analytical Services - Minneapolis

Chloride	1340	mg/L	120	38.7	100		01/05/23 08:15	16887-00-6	
Sulfate	8650	mg/L	120	42.8	100		01/05/23 08:15	14808-79-8	

### 353.2 Nitrogen, NO2/NO3 pres.

Analytical Method: EPA 353.2

Pace Analytical Services - Green Bay

Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		01/05/23 13:01		
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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

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**Sample: 6305-MW-11**      **Lab ID: 40256376004**      Collected: 12/21/22 12:30      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>5310C TOC</b>									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	2.7	mg/L	1.0	0.28	2		12/29/22 02:38	7440-44-0	

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

**Sample: 6305-MW-12**      **Lab ID: 40256376005**      Collected: 12/21/22 12:20      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		12/27/22 12:26	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:26	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/27/22 12:26	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 12:26	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/27/22 12:26	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/27/22 12:26	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 12:26	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/27/22 12:26	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/27/22 12:26	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/27/22 12:26	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 12:26	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/27/22 12:26	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/27/22 12:26	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/27/22 12:26	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 12:26	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 12:26	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/27/22 12:26	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/27/22 12:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/27/22 12:26	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/27/22 12:26	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 12:26	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 12:26	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/27/22 12:26	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/27/22 12:26	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 12:26	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/27/22 12:26	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/27/22 12:26	75-35-4	M1
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		12/27/22 12:26	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		12/27/22 12:26	156-60-5	L1
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/27/22 12:26	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/27/22 12:26	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/27/22 12:26	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/27/22 12:26	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:26	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/27/22 12:26	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 12:26	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 12:26	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/27/22 12:26	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/27/22 12:26	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/27/22 12:26	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/27/22 12:26	75-09-2	L1
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 12:26	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		12/27/22 12:26	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 12:26	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:26	100-42-5	

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

**Sample: 6305-MW-12**      **Lab ID: 40256376005**      Collected: 12/21/22 12:20      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		12/27/22 12:26	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/27/22 12:26	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		12/27/22 12:26	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/22 12:26	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/27/22 12:26	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/27/22 12:26	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 12:26	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/27/22 12:26	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		12/27/22 12:26	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 12:26	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/27/22 12:26	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/22 12:26	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:26	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/27/22 12:26	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/22 12:26	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/22 12:26	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/27/22 12:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		12/27/22 12:26	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		12/27/22 12:26	2037-26-5	

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

Sample: 6305-PZ-1 Lab ID: 40256376006 Collected: 12/21/22 13:25 Received: 12/22/22 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		12/27/22 12:46	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:46	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/27/22 12:46	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 12:46	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/27/22 12:46	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/27/22 12:46	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 12:46	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/27/22 12:46	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/27/22 12:46	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/27/22 12:46	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 12:46	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/27/22 12:46	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/27/22 12:46	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/27/22 12:46	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 12:46	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 12:46	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/27/22 12:46	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/27/22 12:46	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/27/22 12:46	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/27/22 12:46	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 12:46	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 12:46	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/27/22 12:46	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/27/22 12:46	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 12:46	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/27/22 12:46	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/27/22 12:46	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		12/27/22 12:46	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		12/27/22 12:46	156-60-5	L1
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/27/22 12:46	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/27/22 12:46	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/27/22 12:46	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/27/22 12:46	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:46	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/27/22 12:46	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 12:46	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 12:46	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/27/22 12:46	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/27/22 12:46	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/27/22 12:46	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/27/22 12:46	75-09-2	L1
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 12:46	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		12/27/22 12:46	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 12:46	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:46	100-42-5	

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## ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

**Sample: 6305-PZ-1**      **Lab ID: 40256376006**      Collected: 12/21/22 13:25      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		12/27/22 12:46	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/27/22 12:46	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		12/27/22 12:46	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/22 12:46	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/27/22 12:46	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/27/22 12:46	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 12:46	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/27/22 12:46	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		12/27/22 12:46	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 12:46	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/27/22 12:46	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/22 12:46	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:46	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/27/22 12:46	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/22 12:46	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/22 12:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/27/22 12:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		12/27/22 12:46	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		12/27/22 12:46	2037-26-5	

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## ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

Sample: TRIP BLANK Lab ID: 40256376007 Collected: 12/21/22 00:00 Received: 12/22/22 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		12/27/22 12:07	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:07	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/27/22 12:07	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 12:07	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/27/22 12:07	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/27/22 12:07	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 12:07	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/27/22 12:07	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/27/22 12:07	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/27/22 12:07	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/27/22 12:07	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/27/22 12:07	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/27/22 12:07	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/27/22 12:07	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 12:07	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/22 12:07	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/27/22 12:07	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/27/22 12:07	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/27/22 12:07	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/27/22 12:07	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 12:07	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 12:07	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/27/22 12:07	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/27/22 12:07	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 12:07	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/27/22 12:07	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/27/22 12:07	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		12/27/22 12:07	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		12/27/22 12:07	156-60-5	L1
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/27/22 12:07	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/27/22 12:07	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/27/22 12:07	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/27/22 12:07	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:07	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/27/22 12:07	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 12:07	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/22 12:07	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/27/22 12:07	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/27/22 12:07	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/27/22 12:07	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/27/22 12:07	75-09-2	L1
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/27/22 12:07	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		12/27/22 12:07	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/27/22 12:07	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:07	100-42-5	

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### ANALYTICAL RESULTS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

**Sample: TRIP BLANK**      **Lab ID: 40256376007**      Collected: 12/21/22 00:00      Received: 12/22/22 07:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		12/27/22 12:07	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/27/22 12:07	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		12/27/22 12:07	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/22 12:07	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/27/22 12:07	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/27/22 12:07	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/22 12:07	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/27/22 12:07	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		12/27/22 12:07	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/27/22 12:07	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/27/22 12:07	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/22 12:07	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/22 12:07	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/27/22 12:07	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/22 12:07	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/22 12:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/27/22 12:07	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		12/27/22 12:07	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		12/27/22 12:07	2037-26-5	HS

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

QC Batch: 434356	Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified	Analysis Description: Methane, Ethane, Ethene GCV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

METHOD BLANK: 2499868 Matrix: Water

Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	12/27/22 12:25	
Ethene	ug/L	<0.25	5.0	12/27/22 12:25	
Methane	ug/L	<0.58	2.8	12/27/22 12:25	

LABORATORY CONTROL SAMPLE & LCSD: 2499869 2499870

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	48.4	52.3	90	98	74-120	8	20	
Ethene	ug/L	50	45.6	48.8	91	98	71-122	7	20	
Methane	ug/L	28.6	25.7	28.1	90	98	73-120	9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2500083 2500084

Parameter	Units	40256177006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	1.1J	53.6	53.6	49.0	52.1	89	95	70-120	6	20	
Ethene	ug/L	0.38J	50	50	44.9	48.5	89	96	68-122	8	20	
Methane	ug/L	13.0	28.6	28.6	33.2	35.5	71	79	10-200	7	20	

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

QC Batch: 434585	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D MET
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

METHOD BLANK: 2501040 Matrix: Water  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<56.7	100	12/28/22 19:56	
Manganese	ug/L	<1.5	5.0	12/28/22 19:56	

LABORATORY CONTROL SAMPLE: 2501041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9490	95	80-120	
Manganese	ug/L	250	241	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2501042 2501043

Parameter	Units	40256345001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	118	10000	10000	10200	9930	101	98	75-125	3	20	
Manganese	ug/L	11.6	250	250	269	265	103	101	75-125	2	20	

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

QC Batch: 435037 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D MET Dissolved  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

METHOD BLANK: 2502951 Matrix: Water  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<56.7	100	01/04/23 14:15	
Manganese, Dissolved	ug/L	<1.5	5.0	01/04/23 14:15	

LABORATORY CONTROL SAMPLE: 2502952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10200	102	80-120	
Manganese, Dissolved	ug/L	250	260	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2502953 2502954

Parameter	Units	40256438004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	3880	10000	10000	14200	14000	103	101	75-125	1	20	
Manganese, Dissolved	ug/L	497	250	250	752	737	102	96	75-125	2	20	

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

QC Batch: 434609 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004, 40256376005, 40256376006, 40256376007

METHOD BLANK: 2501118 Matrix: Water  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004, 40256376005, 40256376006, 40256376007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	12/27/22 10:09	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	12/27/22 10:09	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	12/27/22 10:09	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	12/27/22 10:09	
1,1-Dichloroethane	ug/L	<0.30	1.0	12/27/22 10:09	
1,1-Dichloroethene	ug/L	<0.58	1.0	12/27/22 10:09	
1,1-Dichloropropene	ug/L	<0.41	1.0	12/27/22 10:09	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	12/27/22 10:09	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	12/27/22 10:09	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	12/27/22 10:09	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	12/27/22 10:09	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	12/27/22 10:09	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	12/27/22 10:09	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	12/27/22 10:09	
1,2-Dichloroethane	ug/L	<0.29	1.0	12/27/22 10:09	
1,2-Dichloropropane	ug/L	<0.45	1.0	12/27/22 10:09	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	12/27/22 10:09	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	12/27/22 10:09	
1,3-Dichloropropane	ug/L	<0.30	1.0	12/27/22 10:09	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	12/27/22 10:09	
2,2-Dichloropropane	ug/L	<4.2	5.0	12/27/22 10:09	
2-Chlorotoluene	ug/L	<0.89	5.0	12/27/22 10:09	
4-Chlorotoluene	ug/L	<0.89	5.0	12/27/22 10:09	
Benzene	ug/L	<0.30	1.0	12/27/22 10:09	
Bromobenzene	ug/L	<0.36	1.0	12/27/22 10:09	
Bromochloromethane	ug/L	<0.36	5.0	12/27/22 10:09	
Bromodichloromethane	ug/L	<0.42	1.0	12/27/22 10:09	
Bromoform	ug/L	<3.8	5.0	12/27/22 10:09	
Bromomethane	ug/L	<1.2	5.0	12/27/22 10:09	
Carbon tetrachloride	ug/L	<0.37	1.0	12/27/22 10:09	
Chlorobenzene	ug/L	<0.86	1.0	12/27/22 10:09	
Chloroethane	ug/L	<1.4	5.0	12/27/22 10:09	
Chloroform	ug/L	<1.2	5.0	12/27/22 10:09	
Chloromethane	ug/L	<1.6	5.0	12/27/22 10:09	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	12/27/22 10:09	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	12/27/22 10:09	
Dibromochloromethane	ug/L	<2.6	5.0	12/27/22 10:09	
Dibromomethane	ug/L	<0.99	5.0	12/27/22 10:09	
Dichlorodifluoromethane	ug/L	<0.46	5.0	12/27/22 10:09	
Diisopropyl ether	ug/L	<1.1	5.0	12/27/22 10:09	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

METHOD BLANK: 2501118 Matrix: Water  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004, 40256376005, 40256376006, 40256376007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	12/27/22 10:09	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	12/27/22 10:09	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	12/27/22 10:09	
m&p-Xylene	ug/L	<0.70	2.0	12/27/22 10:09	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	12/27/22 10:09	
Methylene Chloride	ug/L	<0.32	5.0	12/27/22 10:09	
n-Butylbenzene	ug/L	<0.86	1.0	12/27/22 10:09	
n-Propylbenzene	ug/L	<0.35	1.0	12/27/22 10:09	
Naphthalene	ug/L	<1.1	5.0	12/27/22 10:09	
o-Xylene	ug/L	<0.35	1.0	12/27/22 10:09	
p-Isopropyltoluene	ug/L	<1.0	5.0	12/27/22 10:09	
sec-Butylbenzene	ug/L	<0.42	1.0	12/27/22 10:09	
Styrene	ug/L	<0.36	1.0	12/27/22 10:09	
tert-Butylbenzene	ug/L	<0.59	1.0	12/27/22 10:09	
Tetrachloroethene	ug/L	<0.41	1.0	12/27/22 10:09	
Toluene	ug/L	<0.29	1.0	12/27/22 10:09	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	12/27/22 10:09	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	12/27/22 10:09	
Trichloroethene	ug/L	<0.32	1.0	12/27/22 10:09	
Trichlorofluoromethane	ug/L	<0.42	1.0	12/27/22 10:09	
Vinyl chloride	ug/L	<0.17	1.0	12/27/22 10:09	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130	12/27/22 10:09	
4-Bromofluorobenzene (S)	%	97	70-130	12/27/22 10:09	
Toluene-d8 (S)	%	99	70-130	12/27/22 10:09	

LABORATORY CONTROL SAMPLE: 2501119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.2	102	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	45.8	92	69-130	
1,1,2-Trichloroethane	ug/L	50	43.2	86	70-130	
1,1-Dichloroethane	ug/L	50	48.8	98	70-130	
1,1-Dichloroethene	ug/L	50	65.0	130	74-131	
1,2,4-Trichlorobenzene	ug/L	50	43.2	86	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.5	83	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	44.6	89	70-130	
1,2-Dichlorobenzene	ug/L	50	45.4	91	70-130	
1,2-Dichloroethane	ug/L	50	51.3	103	70-137	
1,2-Dichloropropane	ug/L	50	49.7	99	80-121	
1,3-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,4-Dichlorobenzene	ug/L	50	46.6	93	70-130	
Benzene	ug/L	50	49.9	100	70-130	
Bromodichloromethane	ug/L	50	48.9	98	70-130	
Bromoform	ug/L	50	46.0	92	70-130	

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

LABORATORY CONTROL SAMPLE: 2501119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	54.4	109	21-147	
Carbon tetrachloride	ug/L	50	53.8	108	80-146	
Chlorobenzene	ug/L	50	50.5	101	70-130	
Chloroethane	ug/L	50	62.0	124	52-165	
Chloroform	ug/L	50	50.8	102	80-123	
Chloromethane	ug/L	50	41.1	82	51-122	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.2	94	70-130	
Dibromochloromethane	ug/L	50	45.8	92	70-130	
Dichlorodifluoromethane	ug/L	50	28.5	57	25-121	
Ethylbenzene	ug/L	50	53.5	107	80-120	
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	63.4	127	70-130	
Methylene Chloride	ug/L	50	65.6	131	70-130 L1	
o-Xylene	ug/L	50	51.9	104	70-130	
Styrene	ug/L	50	49.3	99	70-130	
Tetrachloroethene	ug/L	50	45.1	90	70-130	
Toluene	ug/L	50	46.2	92	80-120	
trans-1,2-Dichloroethene	ug/L	50	65.5	131	70-130 L1	
trans-1,3-Dichloropropene	ug/L	50	41.2	82	70-130	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	57.0	114	65-160	
Vinyl chloride	ug/L	50	41.5	83	63-134	
1,2-Dichlorobenzene-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2501184 2501185

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40256376005	Result	Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	50.4	51.0	101	102	70-134	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	44.4	44.6	89	89	61-135	1	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	45.0	46.3	90	93	70-130	3	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	46.6	48.4	93	97	70-130	4	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	62.5	66.5	125	133	71-130	6	20	M1	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	42.3	42.8	85	86	68-131	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	42.0	43.1	84	86	51-141	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	45.5	47.4	91	95	70-130	4	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	47.2	48.0	94	96	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	51.1	50.9	102	102	70-137	0	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	45.9	47.9	92	96	80-121	4	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	47.8	48.0	96	96	70-130	0	20		

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2501184		2501185		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40256376005 Result	MS Spike Conc.	MSD Spike Conc.									
1,4-Dichlorobenzene	ug/L	<0.89	50	50	45.6	46.2	91	92	70-130	1	20		
Benzene	ug/L	<0.30	50	50	47.9	49.6	96	99	70-130	4	20		
Bromodichloromethane	ug/L	<0.42	50	50	47.1	48.5	94	97	70-130	3	20		
Bromoform	ug/L	<3.8	50	50	45.4	46.8	91	94	70-133	3	20		
Bromomethane	ug/L	<1.2	50	50	54.1	57.0	108	114	21-149	5	22		
Carbon tetrachloride	ug/L	<0.37	50	50	51.7	53.4	103	107	80-146	3	20		
Chlorobenzene	ug/L	<0.86	50	50	49.4	49.6	99	99	70-130	0	20		
Chloroethane	ug/L	<1.4	50	50	60.7	59.9	121	120	52-165	1	20		
Chloroform	ug/L	<1.2	50	50	48.8	50.5	98	101	80-123	3	20		
Chloromethane	ug/L	<1.6	50	50	35.7	37.3	71	75	42-125	4	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	47.2	48.6	94	97	70-130	3	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	46.7	47.8	93	96	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	46.5	48.3	93	97	70-130	4	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	27.7	27.3	55	55	25-121	1	20		
Ethylbenzene	ug/L	<0.33	50	50	50.6	51.9	101	104	80-121	2	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.3	54.1	107	108	70-130	2	20		
m&p-Xylene	ug/L	<0.70	100	100	103	105	103	105	70-130	2	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	60.2	61.7	120	123	70-130	2	20		
Methylene Chloride	ug/L	<0.32	50	50	62.6	64.8	125	130	70-130	3	20		
o-Xylene	ug/L	<0.35	50	50	50.0	51.3	100	103	70-130	3	20		
Styrene	ug/L	<0.36	50	50	48.0	49.6	96	99	70-132	3	20		
Tetrachloroethene	ug/L	<0.41	50	50	46.4	47.8	93	96	70-130	3	20		
Toluene	ug/L	<0.29	50	50	48.0	49.8	96	100	80-120	4	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	63.5	64.2	127	128	70-130	1	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	42.8	43.0	86	86	70-130	0	20		
Trichloroethene	ug/L	<0.32	50	50	49.5	51.6	99	103	70-130	4	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	56.1	56.1	112	112	65-160	0	20		
Vinyl chloride	ug/L	<0.17	50	50	41.5	42.0	83	84	60-137	1	20		
1,2-Dichlorobenzene-d4 (S)	%						98	96	70-130				
4-Bromofluorobenzene (S)	%						98	96	70-130				
Toluene-d8 (S)	%						99	99	70-130				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

QC Batch: 861415 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Minneapolis  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

METHOD BLANK: 4550545 Matrix: Water  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.44J	1.2	01/04/23 23:48	
Sulfate	mg/L	<0.43	1.2	01/04/23 23:48	

LABORATORY CONTROL SAMPLE: 4550546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4550547 4550548

Parameter	Units	40256376002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	358	500	500	797	793	88	87	80-120	1	20	
Sulfate	mg/L	49.6	50	50	85.1	82.3	71	65	80-120	3	20 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4550549 4550550

Parameter	Units	40256031004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	<0.39	50	50	45.8	45.7	91	91	80-120	0	20	
Sulfate	mg/L	<0.43	50	50	45.9	46.1	92	92	80-120	0	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

QC Batch: 435151 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

METHOD BLANK: 2503555 Matrix: Water  
Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/05/23 13:44	

LABORATORY CONTROL SAMPLE: 2503556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2503557 2503558

Parameter	Units	40256373003		2503557		2503558		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.					
Nitrogen, NO2 plus NO3	mg/L	3.2	2.5	2.5	2.5	5.7	5.7	100	103	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2503559 2503560

Parameter	Units	40256566017		2503559		2503560		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.					
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.5	2.3	2.3	92	92	90-110	0	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

QC Batch: 434700

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

METHOD BLANK: 2501368

Matrix: Water

Associated Lab Samples: 40256376001, 40256376002, 40256376003, 40256376004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	12/29/22 06:15	

LABORATORY CONTROL SAMPLE: 2501369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	11.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2501370 2501371

Parameter	Units	2501370		2501371		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/L	3.5	6	9.2	9.1	95	93	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2501372 2501373

Parameter	Units	2501372		2501373		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/L	2.4	6	8.2	8.2	98	97	80-120	1	10	

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## QUALIFIERS

Project: 6305 PETERS CLEANERS  
Pace Project No.: 40256376

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).  
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6305 PETERS CLEANERS

Pace Project No.: 40256376

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40256376001	6305-MW-5	EPA 8015B Modified	434356		
40256376002	6305-MW-8	EPA 8015B Modified	434356		
40256376003	6305-MW-9	EPA 8015B Modified	434356		
40256376004	6305-MW-11	EPA 8015B Modified	434356		
40256376001	6305-MW-5	EPA 3010A	434585	EPA 6010D	434752
40256376002	6305-MW-8	EPA 3010A	434585	EPA 6010D	434752
40256376003	6305-MW-9	EPA 3010A	434585	EPA 6010D	434752
40256376004	6305-MW-11	EPA 3010A	434585	EPA 6010D	434752
40256376001	6305-MW-5	EPA 3010A	435037	EPA 6010D	435111
40256376002	6305-MW-8	EPA 3010A	435037	EPA 6010D	435111
40256376003	6305-MW-9	EPA 3010A	435037	EPA 6010D	435111
40256376004	6305-MW-11	EPA 3010A	435037	EPA 6010D	435111
40256376001	6305-MW-5	EPA 8260	434609		
40256376002	6305-MW-8	EPA 8260	434609		
40256376003	6305-MW-9	EPA 8260	434609		
40256376004	6305-MW-11	EPA 8260	434609		
40256376005	6305-MW-12	EPA 8260	434609		
40256376006	6305-PZ-1	EPA 8260	434609		
40256376007	TRIP BLANK	EPA 8260	434609		
40256376001	6305-MW-5	EPA 300.0	861415		
40256376002	6305-MW-8	EPA 300.0	861415		
40256376003	6305-MW-9	EPA 300.0	861415		
40256376004	6305-MW-11	EPA 300.0	861415		
40256376001	6305-MW-5	EPA 353.2	435151		
40256376002	6305-MW-8	EPA 353.2	435151		
40256376003	6305-MW-9	EPA 353.2	435151		
40256376004	6305-MW-11	EPA 353.2	435151		
40256376001	6305-MW-5	SM 5310C	434700		
40256376002	6305-MW-8	SM 5310C	434700		
40256376003	6305-MW-9	SM 5310C	434700		
40256376004	6305-MW-11	SM 5310C	434700		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40256376

ALL SHADED AREAS are for LAB USE ONLY

Company: **EnviroForensics**

Billing Information: **Accounts Payable**

Address: **116 W 23390 Stone Ridge Dr  
Suite G Waukegan WI**

Email To: **accounts.payable@enviroforensics.com**

Report To: **Rob Haverman**

Site Collection Info/Address: **5094 College Ave**

Customer Project Name/Number: **6305  
Peters Cleaners**

State: **WI** County/City: **Milwaukee/Greenfield** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Phone: **262 290 4001** Site/Facility ID #:

Compliance Monitoring? **[ ] Yes [ ] No**

Email: **rhaverman@enviroforensics.com** Purchase Order #:

DW PWS ID #: **[ ]** DW Location Code: **[ ]**

Collected By (print): **R Brown** Quote #:

Immediately Packed on Ice: **[X] Yes [ ] No**

Collected By (signature): **[Signature]** Turnaround Date Required:

Field Filtered (if applicable): **[X] Yes [ ] No**

Sample Disposal: **[X] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold** Rush: **[ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)**

Analysis: **DISS Fe/Mn**

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
6305-MW-5	GW	G	12-21-22	1340			10	X X X X X X X
6305-MW-8				1255			10	X X X X X X X
6305-MW-9				1315			11	X X X X X X X
6305-MW-11				1230			11	X X X X X X X
6305-MW-12				1220			3	X
6305-PZ-1				1325			3	X
Trip Blank ①								

Container Preservative Type \*\*

3 3 2 1 1 1 1 2

Lab Project Manager:

Analyses

VOC 8760  
Ethene Ethane Methane  
TOC by SM 5310C  
Total Fe/Mn  
Dissolved Fe/Mn  
Chloride / sulfate  
NO<sub>2</sub> + NO<sub>3</sub>

Lab Profile/Line:

Lab Sample Receipt Checklist	
Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signatures Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY: Lab Sample # / Comments:

001  
002  
003  
004  
005  
000  
007

Customer Remarks / Special Conditions / Possible Hazards: **6305-MW-5 + 6305-MW-8? EEM-2 VIALS ① In shipment Lab added to COC 12/22/22**

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Sample Temperature Info:

Packing Material Used:

Lab Tracking #: **2782933**

Temp Blank Received: Y N NA  
Therm ID #: **①**  
Cooler 1 Temp Upon Receipt: \_\_\_ oC  
Cooler 1 Therm Corr. Factor: \_\_\_ oC  
Cooler 1 Corrected Temp: \_\_\_ oC  
Comments:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) **727 Enviroforensics**

Date/Time: **12-22/1515** Received by/Company: (Signature) **CS Logistics**

Date/Time: **12-22/1515** MTJL LAB USE ONLY

Relinquished by/Company: (Signature) **CS Logistics**

Date/Time: **12/22/22 0745** Received by/Company: (Signature) **Suzanne Mace Pace**

Date/Time: **0745** Table #: Acctnum: Template: Prelogin:

Relinquished by/Company: (Signature)

Date/Time: Received by/Company: (Signature)

Date/Time: PM: PB:

Trip Blank Received: Y N NA  
HCL MeOH TSP Other

Non Conformance(s): YES / NO Page 37 of 39 of: **1**



Sample Condition Upon Receipt Form (SCUR)

Client Name: Enviro Forensics  
 Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Project #: \_\_\_\_\_  
**WO#: 40256376**  
  
 40256376

Tracking #: \_\_\_\_\_  
 Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
 Custody Seal on Samples Present:  yes  no Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_  
 Thermometer Used SR - 117 Type of Ice:  Dry  Blue Dry  None  Meltwater Only  
 Cooler Temperature Uncorr. 115 / Corr. 2.0  
 Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 12/22/22 / Initials: SKW  
 Labeled By Initials: YAA

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>+CC</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>In shipment Lab added to loc</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>492</u>		<u>12/22/22 SKW</u>

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_



**EnvisionAir**  
1441 Sadlier Circle West Drive  
Indianapolis, IN 46239  
Ph: 317-351-0885  
Fax: 317-351-0882  
[www.envision-air.com](http://www.envision-air.com)

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

January 5, 2023

EnvisionAir Project Number: 2022-708  
Client Project Name: 6305 – Peters Cleaners

Dear Mr. Hoverman,

Please find the attached analytical report for the samples received December 22, 2022. 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, flowing style.

David Norris  
Project Manager  
EnvisionAir, LLC



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

**Client Name:** ENVIROFORENSICS  
**Project ID:** 6305 - PETERS CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2022-708

**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>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received:</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>		
22-3565	6305-EFFLUENT	A	12/21/22	14:19	12/21/22	14:23	12/22/22	10:15	-28	-4	-4							



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 Indianapolis, IN 46239  
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 www.envision-air.com

**Client Name:** ENVIROFORENSICS  
**Project ID:** 6305 - PETERS CLEANERS  
**Client Project Manager:** ROB HOVERMAN  
**EnvisionAir Project Number:** 2022-708

**Analytical Method:** TO-15  
**Analytical Batch:** 122822AIR

**Client Sample ID:** 6305-EFFLUENT  
**EnvisionAir Sample Number:** 22-3565  
**Sample Matrix:** AIR

**Sample Collection START Date/Time:** 12/21/22 14:19  
**Sample Collection END Date/Time:** 12/21/22 14:23  
**Sample Received Date/Time:** 12/22/22 10:15

<u>Compounds</u>	<u>Sample Results ug/m<sup>3</sup></u>	<u>Reporting Limit ug/m<sup>3</sup></u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	<b>155</b>	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	12-28-22/15:45		
Analyst Initials	tjg		



**TO-15 Quality Control Data**

**EnvisionAir Batch Number:** 122822AIR

<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)	102%		
Analysis Date/Time:	12-28-22/14:00		
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	9.05	9.93	10	91%	99%	9.3%	
trans-1,2-Dichloroethene	8.95	9.55	10	90%	96%	6.5%	
cis-1,2-Dichloroethene	9.55	10.6	10	96%	106%	10.4%	
Trichloroethene	9.91	10	10	99%	100%	0.9%	
Tetrachloroethene	10.6	10.4	10	106%	104%	1.9%	
4-bromofluorobenzene (surrogate)	106%	100%					
Analysis Date/Time:	12-28-22/12:11	12-28-22/12:50					
Analyst Initials	tjg	tjg					



**EnvisionAir**  
1441 Sadler Circle West Drive  
Indianapolis, IN 46239  
Ph: 317-351-0885  
Fax: 317-351-0882  
[www.envision-air.com](http://www.envision-air.com)

Flag Number

Comments

# CHAIN OF CUSTODY RECORD

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

P.O. Number:

REQUESTED PARAMETERS

Project Name or Number: 6305

Peters Cleaners

Client: EnvisionAir  
Report: Rhoermer  
Address: envisionair.com

Report To: Rhoermer  
Sampled by: R Brown

Phone: 202-290-4001  
QA/QC Required: (circle if applicable)  
Level III Level IV

Invoice Address: accounts  
Repeating Units needed: (circle)  
ug/m<sup>3</sup> mg/m<sup>3</sup> PPBV PPMV

Desired TAT: (Please Circle One)  
1 day 2 days 3 days 5 days (5 bus. days)

Media type: 11C = 1 Liter Canister  
11S = 6 Liter Canister  
TD = Thermal Description Tube

TO-15 Full List  
TO-15 Short List (Specify in notes)

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

www.envision-air.com

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
6305-Effluent	11C	12-2-22	1419	12-2-22	1423	20024	0028	-28	-41	-4	22-3505

Comments: PCF TCE OPCE PXE VC

Relinquished by:	Date	Time	Received by:	Date	Time
RL	12-2-22	1630	FDEX	12-9-22	1630
			POURVEN	12-22-22	10:15



Beacon Environmental

2203A Commerce Road, Suite 1

Forest Hill, MD 21050 USA

1.410.838.8780

## CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 221003R01

Laboratory Work Order: 0006726

### Project Description:

Peters Cleaners

Greendale, WI

Prepared for:

Rob Hoverman

**EnviroForensics**

N16W23390 Stone Ridge Dr, Suite G

Waukesha, WI 53188

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Ryan W. Schneider  
Senior Project Manager

January 13, 2023

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

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Steven C. Thornley  
Laboratory Director

---

Peter B. Kelly  
Quality Manager

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**EnviroForensics**  
N16W23390 Stone Ridge Dr, Suite G  
Waukesha, WI 53188

**Site Name:** Peters Cleaners  
**Site Location:** Greendale, WI  
**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

### Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0006726-01	6305-IA-1	12/29/2022	TO-17 (Passive)	Indoor Air
Sampler Type: Sorbent Tube				

#### Project Completeness

**Samples Received:** 1  
**Samples Analyzed:** 1

**EnviroForensics**  
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**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

### *Case Narrative*

Beacon Environmental provided thermally conditioned ChloroSorbent for sampling, with analyses following U.S. EPA Method TO-17, with analytical results reported in  $\mu\text{g}/\text{m}^3$ . Beacon calculated concentration results using the exposure period, target analyte mass, and the following procedures detailed in ISO 16017-2, *Indoor, ambient and workplace air-Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography-Part 2: Diffusive sampling*.

Beacon reports results and reporting limits to three significant digits.

#### **Reporting Limits (RLs) for EPA Method TO-17**

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of detection (LOD) as noted in the data tables.

#### **Calibration Verification**

All continuing calibration verification (CCV) values are within  $\pm 30\%$  of the true values as defined by the initial calibration and met the requirements specified in BEACON's Quality Manual.

#### **Internal Standards and Surrogates**

Internal standards and surrogates are spiked on all blanks (ICB, BLK), field samples and laboratory control samples (ICV/CALV, BS, ICV and CCV). Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates are within the acceptance criteria unless noted in the **Case Narrative**.

#### **Blank Contamination**

No targeted compounds above the limit of detection (LOD) for each compound were observed in the Laboratory Method Blanks unless noted in the **Case Narrative**.

#### **Laboratory Control Samples**

Acceptance criteria for surrogate and analytes recoveries are 70 to 130 percent; all recoveries are within the acceptance criteria unless noted in the **Case Narrative**.

#### **Discussion**

Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

End of Case Narrative

**EnviroForensics**  
N16W23390 Stone Ridge Dr, Suite G  
Waukesha, WI 53188

**Site Name:** Peters Cleaners  
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**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

## *Analytical Results*



<b>EnviroForensics</b> N16W23390 Stone Ridge Dr, Suite G Waukesha, WI 53188	<b>Site Name:</b> Peters Cleaners <b>Site Location:</b> Greendale, WI <b>Project Manager:</b> Rob Hoverman	<b>Beacon Proposal:</b> 221003R01 <b>Lab Work Order:</b> 0006726 <b>Reported:</b> 01/13/2023
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*Summary of Compound Detections- Concentration*

Lab Sample ID: 0006726-01	<b>6305-IA-1</b> Indoor Air	Method: TO-17 (Passive)
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Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
<b>Tetrachloroethene</b>	127-18-4	<b>1.26</b>		7.973	0.612	0.306	Kb23010417.D

**EnviroForensics**  
N16W23390 Stone Ridge Dr, Suite G  
Waukesha, WI 53188**Site Name:** Peters Cleaners  
**Site Location:** Greendale, WI  
**Project Manager:** Rob Hoverman**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023***Data Summary Table- Concentration***

<b>Compound</b>	<b>Frequency</b>	<b>LOD (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Max Value (<math>\mu\text{g}/\text{m}^3</math>)</b>
Tetrachloroethene	1	0.306	1.26

**EnviroForensics**  
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**Beacon Proposal:** 221003R01  
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**Reported:** 01/13/2023

*Detailed Analytical Results*

**EnviroForensics**  
 N16W23390 Stone Ridge Dr, Suite G  
 Waukesha, WI 53188

**Site Name:** Peters Cleaners  
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**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

Lab Sample ID: 0006726-01

**6305-IA-1**

Method: TO-17 (Passive)

Indoor Air

Analyte	CAS#	Result (µg/m <sup>3</sup> )	Q	LOD (µg/m <sup>3</sup> )	LOQ (µg/m <sup>3</sup> )	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.301	U	0.301	0.601	01/04/2023 16:17	Kb23010417.D
trans-1,2-Dichloroethene	156-60-5	<0.241	U	0.241	0.481	01/04/2023 16:17	Kb23010417.D
cis-1,2-Dichloroethene	156-59-2	<0.241	U	0.241	0.481	01/04/2023 16:17	Kb23010417.D
Trichloroethene	79-01-6	<0.259	U	0.259	0.518	01/04/2023 16:17	Kb23010417.D
<b>Tetrachloroethene</b>	127-18-4	<b>1.26</b>		0.306	0.612	01/04/2023 16:17	Kb23010417.D
Analyte	CAS#	% Recovery	Recovery Limits	Q		Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	113%	70-130			01/04/2023 16:17	Kb23010417.D
Surrogate: Toluene-d8	2037-26-5	107%	70-130			01/04/2023 16:17	Kb23010417.D

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**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

## *QC Information/Summary*

<b>EnviroForensics</b> N16W23390 Stone Ridge Dr, Suite G Waukesha, WI 53188	<b>Site Name:</b> Peters Cleaners <b>Site Location:</b> Greendale, WI <b>Project Manager:</b> Rob Hoverman	<b>Beacon Proposal:</b> 221003R01 <b>Lab Work Order:</b> 0006726 <b>Reported:</b> 01/13/2023
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*Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary*

**Sequence: B22L001 - Instrument: K System - File ID: K22113017.D**

*B22L001-ICV1 (LCSD/Second Source Verification/CALV)*

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	48.7	10	5	ng	50.0		97.4	70-130			
trans-1,2-Dichloroethene	49.1	10	5	ng	50.0		98.2	70-130			
cis-1,2-Dichloroethene	50.0	10	5	ng	50.0		100	70-130			
Trichloroethene	53.0	10	5	ng	50.0		106	70-130			
Tetrachloroethene	59.6	10	5	ng	50.0		119	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>50.4</i>			<i>ng</i>	<i>50.0</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.4</i>			<i>ng</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>			

**EnviroForensics**  
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 Waukesha, WI 53188

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**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

*Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary*

**Sequence: B22L001 - Instrument: K System - File ID: K22113020.D**
***B22L001-ICB1 (Lab Blank/Initial Calibration Blank)***

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	5	ng							U
trans-1,2-Dichloroethene	<5	10	5	ng							U
cis-1,2-Dichloroethene	<5	10	5	ng							U
Trichloroethene	<5	10	5	ng							U
Tetrachloroethene	<5	10	5	ng							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>95.2</i>			<i>ng</i>	<i>100</i>		<i>95.2</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>101</i>			<i>ng</i>	<i>100</i>		<i>101</i>	<i>70-130</i>			

**EnviroForensics**  
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 Waukesha, WI 53188

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**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

*Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary*

**Sequence: B23A004 - Batch: 23A0004 - Instrument: K System - File ID: Kb23010402.D**
**23A0004-BS1 (LCS, Calibration Source Verification)**

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	48.7	10	5	ng	50.0		97.4	70-130			
trans-1,2-Dichloroethene	51.8	10	5	ng	50.0		104	70-130			
cis-1,2-Dichloroethene	50.8	10	5	ng	50.0		102	70-130			
Trichloroethene	49.8	10	5	ng	50.0		99.5	70-130			
Tetrachloroethene	63.9	10	5	ng	50.0		128	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>56.4</i>			<i>ng</i>	<i>50.0</i>		<i>113</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>60.3</i>			<i>ng</i>	<i>50.0</i>		<i>121</i>	<i>70-130</i>			



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**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

*Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary*

**Sequence: B23A004 - Batch: 23A0004 - Instrument: K System - File ID: Kb23010403.D**
**23A0004-BLK1 (Lab Blank)**

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.443	0.601	0.301	µg/m <sup>3</sup>							U
trans-1,2-Dichloroethene	<0.354	0.481	0.241	µg/m <sup>3</sup>							U
cis-1,2-Dichloroethene	<0.354	0.481	0.241	µg/m <sup>3</sup>							U
Trichloroethene	<0.382	0.518	0.259	µg/m <sup>3</sup>							U
Tetrachloroethene	<0.451	0.612	0.306	µg/m <sup>3</sup>							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>110</i>			<i>ng</i>	<i>100</i>		<i>110</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>114</i>			<i>ng</i>	<i>100</i>		<i>114</i>	<i>70-130</i>			

**EnviroForensics**  
 N16W23390 Stone Ridge Dr, Suite G  
 Waukesha, WI 53188

**Site Name:** Peters Cleaners  
**Site Location:** Greendale, WI  
**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

*Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary*

**Sequence: B23A004 - Instrument: K System - File ID: Kb23010404.D**
***B23A004-ICV1 (LCSD/Second Source Verification/CALV)***

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	48.7	10	5	ng	50.0		97.3	70-130			
trans-1,2-Dichloroethene	51.1	10	5	ng	50.0		102	70-130			
cis-1,2-Dichloroethene	50.8	10	5	ng	50.0		102	70-130			
Trichloroethene	48.9	10	5	ng	50.0		97.7	70-130			
Tetrachloroethene	63.4	10	5	ng	50.0		127	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>56.0</i>			<i>ng</i>	<i>50.0</i>		<i>112</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>58.2</i>			<i>ng</i>	<i>50.0</i>		<i>116</i>	<i>70-130</i>			

<b>EnviroForensics</b> N16W23390 Stone Ridge Dr, Suite G Waukesha, WI 53188	<b>Site Name:</b> Peters Cleaners <b>Site Location:</b> Greendale, WI <b>Project Manager:</b> Rob Hoverman	<b>Beacon Proposal:</b> 221003R01 <b>Lab Work Order:</b> 0006726 <b>Reported:</b> 01/13/2023
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*Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary*

**Sequence: B23A004 - Instrument: K System - File ID: Kb23010425.D**

***B23A004-CCV1 (LCS, Closing Calibration Verification)***

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	48.5	10	5	ng	50.0		97.0	70-130			
trans-1,2-Dichloroethene	52.1	10	5	ng	50.0		104	70-130			
cis-1,2-Dichloroethene	51.3	10	5	ng	50.0		103	70-130			
Trichloroethene	47.5	10	5	ng	50.0		95.0	70-130			
Tetrachloroethene	62.0	10	5	ng	50.0		124	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>56.8</i>			<i>ng</i>	<i>50.0</i>		<i>114</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>58.9</i>			<i>ng</i>	<i>50.0</i>		<i>118</i>	<i>70-130</i>			

**EnviroForensics**  
 N16W23390 Stone Ridge Dr, Suite G  
 Waukesha, WI 53188

**Site Name:** Peters Cleaners  
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**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

*Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary*

**Sequence: B23A004 - Instrument: K System - File ID: Kb23010426.D**
***B23A004-CCB1 (Lab Blank)***

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	5	ng							U
trans-1,2-Dichloroethene	<5	10	5	ng							U
cis-1,2-Dichloroethene	<5	10	5	ng							U
Trichloroethene	<5	10	5	ng							U
Tetrachloroethene	<5	10	5	ng							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>95.5</i>			<i>ng</i>	<i>100</i>		<i>95.5</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>116</i>			<i>ng</i>	<i>100</i>		<i>116</i>	<i>70-130</i>			

**EnviroForensics**  
 N16W23390 Stone Ridge Dr, Suite G  
 Waukesha, WI 53188

**Site Name:** Peters Cleaners  
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**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

*Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary*

**Sequence: B23A004 - Instrument: K System - File ID: Kb23010441.D**
***B23A004-CCV2 (Continuing Calibration Verification)***

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	48.9	10	5	ng	50.0		97.8	70-130			
trans-1,2-Dichloroethene	52.6	10	5	ng	50.0		105	70-130			
cis-1,2-Dichloroethene	51.6	10	5	ng	50.0		103	70-130			
Trichloroethene	50.3	10	5	ng	50.0		101	70-130			
Tetrachloroethene	64.6	10	5	ng	50.0		129	70-130			
<i>Surrogate: 1,2-DCA-d4</i>	<i>55.6</i>			<i>ng</i>	<i>50.0</i>		<i>111</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61.4</i>			<i>ng</i>	<i>50.0</i>		<i>123</i>	<i>70-130</i>			

**EnviroForensics**  
 N16W23390 Stone Ridge Dr, Suite G  
 Waukesha, WI 53188

**Site Name:** Peters Cleaners  
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**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

*Organics in Air by EPA TO-17 Using ChloroSorber Packed Tube - Quality Control Summary*

**Sequence: B23A004 - Instrument: K System - File ID: Kb23010442.D**
***B23A004-CCB2 (Lab Blank)***

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	5	ng							U
trans-1,2-Dichloroethene	<5	10	5	ng							U
cis-1,2-Dichloroethene	<5	10	5	ng							U
Trichloroethene	<5	10	5	ng							U
Tetrachloroethene	<5	10	5	ng							U
<i>Surrogate: 1,2-DCA-d4</i>	<i>105</i>			<i>ng</i>	<i>100</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>117</i>			<i>ng</i>	<i>100</i>		<i>117</i>	<i>70-130</i>			

<b>EnviroForensics</b> N16W23390 Stone Ridge Dr, Suite G Waukesha, WI 53188	<b>Site Name:</b> Peters Cleaners <b>Site Location:</b> Greendale, WI <b>Project Manager:</b> Rob Hoverman	<b>Beacon Proposal:</b> 221003R01 <b>Lab Work Order:</b> 0006726 <b>Reported:</b> 01/13/2023
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*TO-17 (Passive) - LCS/LCSD Quality Control Summary*

**LCS: 23A0004-BS1 File ID: Kb23010402.D**

Analyzed: 1/4/23 10:27

**LCSD: B23A004-ICV1 File ID: Kb23010404.D**

Analyzed: 1/4/23 9:39

Analyte	CAS#	LCS Result (ng)	%REC Q	Spike Level (ng)	LCSD Result (ng)	%REC	%REC Limits	RPD	RPD Limit	Q
Vinyl Chloride	75-01-4	48.69	97.38	50	48.67	97.30	70-130	0.04	30	
trans-1,2-Dichloroethene	156-60-5	51.77	103.54	50	51.05	102.00	70-130	1.40	30	
cis-1,2-Dichloroethene	156-59-2	50.77	101.54	50	50.77	102.00	70-130	0.00	30	
Trichloroethene	79-01-6	49.76	99.52	50	48.85	97.70	70-130	1.85	30	
Tetrachloroethene	127-18-4	63.89	127.78	50	63.41	127.00	70-130	0.75	30	

**EnviroForensics**  
N16W23390 Stone Ridge Dr, Suite G  
Waukesha, WI 53188

**Site Name:** Peters Cleaners  
**Site Location:** Greendale, WI  
**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

*Additional QC Information*



<b>EnviroForensics</b> N16W23390 Stone Ridge Dr, Suite G Waukesha, WI 53188	<b>Site Name:</b> Peters Cleaners <b>Site Location:</b> Greendale, WI <b>Project Manager:</b> Rob Hoverman	<b>Beacon Proposal:</b> 221003R01 <b>Lab Work Order:</b> 0006726 <b>Reported:</b> 01/13/2023
---	--	--

**Sample Result Calculation Summary (Concentration)**  
**TO-17 (Passive)**

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m <sup>3</sup>	File ID
---------	-------------------------------	--------------------------	----------------------	---------------------------	---	---------

<b>Lab ID:</b> 0006726-01	<b>Sample Name:</b> 6305-IA-1	<b>̄ Temp (°C):</b> 30.00
---------------------------	-------------------------------	---------------------------

Vinyl Chloride	29,033	1.00	0.573	U	U	Kb23010417.D
trans-1,2-Dichloroethene	29,033	1.00	0.716	U	U	Kb23010417.D
cis-1,2-Dichloroethene	29,033	1.00	0.716	U	U	Kb23010417.D
Trichloroethene	29,033	1.00	0.665	U	U	Kb23010417.D
Tetrachloroethene	29,033	1.00	0.563	20.63	1.26	Kb23010417.D

Calculations:

$$C = \frac{1000 \times M \times DF}{U_c \times t}$$

$$U_c = U * \left( \frac{T_s + 273.15}{T_u + 273.15} \right)^{1/2}$$

- where: C = concentration (µg/m<sup>3</sup>)  
M = mass (ng)  
DF = dilution factor  
Uc = uptake rate (ml/min), corrected  
t = sampling time (minutes)  
U = compound specific uptake rate  
Tu = uptake rate study temperature  
Ts = sample average temperature

**Note:** Tu is 16.65°C

*Reference: Federal Register/Vol. 79, No. 125/June 30, 2014*

<b>EnviroForensics</b> N16W23390 Stone Ridge Dr, Suite G Waukesha, WI 53188	<b>Site Name:</b> Peters Cleaners <b>Site Location:</b> Greendale, WI <b>Project Manager:</b> Rob Hoverman	<b>Beacon Proposal:</b> 221003R01 <b>Lab Work Order:</b> 0006726 <b>Reported:</b> 01/13/2023
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**Method Detection and Reporting Limit Calculations (Concentration)**  
**TO-17 (Passive)**

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng)		C Calculated (µg/m³)	
				LOQ	LOD	LOQ	LOD

<b>Lab ID:</b> 0006726-01	<b>Sample Name:</b> 6305-IA-1	<b>̄ Temp (°C):</b> 30.00
---------------------------	-------------------------------	---------------------------

Vinyl Chloride	29,033	1.00	0.573	10.00	5.00	0.601	0.301
trans-1,2-Dichloroethene	29,033	1.00	0.716	10.00	5.00	0.481	0.241
cis-1,2-Dichloroethene	29,033	1.00	0.716	10.00	5.00	0.481	0.241
Trichloroethene	29,033	1.00	0.665	10.00	5.00	0.518	0.259
Tetrachloroethene	29,033	1.00	0.563	10.00	5.00	0.612	0.306

**EnviroForensics**  
 N16W23390 Stone Ridge Dr, Suite G  
 Waukesha, WI 53188

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**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

### *Laboratory Certification List*

<b>Certification ID</b>	<b>Certification No.</b>	<b>Description</b>	<b>Expires</b>	<b>Project Required</b>
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	01/31/2023	
DoD-ELAP	72690/L22-563	United States Department of Defense Environmental Laboratory Accreditation	11/30/2024	
ISO/IEC 17025:2017	72690/L22-563	General Requirements for the Competence of Testing and Calibration Laboratories	11/30/2024	
NEFAP	72690/L22-564	TNI National Environmental Field Activities Program (NEFAP)	11/30/2024	
NY-NELAC	12097	New York Department of Health	04/01/2023	
Utah-NELAC	MD010912022-12	Utah Department of Health	12/31/2023	

**EnviroForensics**  
N16W23390 Stone Ridge Dr, Suite G  
Waukesha, WI 53188

**Site Name:** Peters Cleaners  
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**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

### Qualifiers/Notes and Definitions

#### *General Definitions:*

DF	Dilution Factor
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
NA	Not Applicable
Q	Qualifier
RPD	Relative Percent Difference
RT	Retention Times in Minutes
RRT	Evaluation of Relative Retention Times in RRT Units (qualified if outside $\pm 0.06$ control limits)
$3\sigma$	Uncertainty
∉	Compound not on scope of accreditation
+	values are outside method/contract required QC limits
∅	Compound not on scope of accreditation and analyzed with a one-point calibration

#### *Sample/Sample Receipt Qualifiers and Notes:*

U Analyte was not detected and is reported as less than the limit of detection (LOD). The LOD has been adjusted for any dilution or concentration of the sample.

**EnviroForensics**  
N16W23390 Stone Ridge Dr, Suite G  
Waukesha, WI 53188

**Site Name:** Peters Cleaners  
**Site Location:** Greendale, WI  
**Project Manager:** Rob Hoverman

**Beacon Proposal:** 221003R01  
**Lab Work Order:** 0006726  
**Reported:** 01/13/2023

## *Sample Management Records*



**ATTACHMENT 2**



## Vapor Mitigation Report

Project location:  
**Former Peters Dry Cleaners**  
**5094 West College Avenue**  
**Glendale, WI 53129**

Prepared by:  
**James Bolint**  
**Protect Environmental**

Report Date:  
**January 24, 2023**



## **Contents**

- Section 1.0: Introduction
- Section 2.0: Scope of Work
- Section 3.0: Mitigation System Design and Installation
- Section 4.0: Post-Mitigation PFE Verification Test
- Section 5.0: Operation and Maintenance Schedule
- Section 6.0: Conclusions

## **Appendices**

- Appendix A: Post-Mitigation Pressure Field Extension Results
- Appendix B: Mitigation System Design
- Appendix C: Mitigation Project Specifications
- Appendix D: Mitigation Fan Specifications
- Appendix E: Credential Documentation

## **Section 1.0: Introduction**

Protect Environmental was retained by Enviroforensics (EFI) to install a sub-slab soil vapor mitigation system at the Former Peters Dry Cleaners, 5094 West College Avenue, Glendale, WI 53129. The mitigation system was installed on a design-build basis. Pressure Field Extension (PFE) testing, for use as a basis of design, was declined by EFI. The mitigation system was installed under the direct supervision of Greg Lauer, a mitigation professional credentialed by the National Radon Proficiency program (NRPP) working in accordance with the ANSI document *Radon Mitigation Standards for Schools and Large Buildings (ANSI/AARST RMS-LB 2018)*.

## **Section 2.0: Scope of Work**

The scope of work included:

1. Installation of the mitigation system on a design-build basis;
2. Preparation and submission of the mitigation report to the client.

## **Section 3.0: Mitigation System Design**

The mitigation system was installed on November 22, 2022. The final mitigation system design is depicted in Figure 1.0. Based on the design-build process, the following mitigation system design was developed:

### System Design

System Specification: Install one (1) 5-inch suction point routing from an interior, vertical foundation penetration to an exterior mounted fan discharging above the roof of the building, utilizing up to 60-feet of 3-inch SCH 40 PVC vapor conveyance piping; install one (1) fan capable of generating up to 4.75-inches water column pressure on the exterior of the building; install two (2) 6-inch x 3-inch rubber couplings; install one (1) 5.0-inch pressure monitor; install one (1) 3-inch discharge guard; install one (1) miscellaneous fasteners pack; install one (1) system label pack.

## **Section 4.0: Post-Mitigation PFE Verification Test**

Post-mitigation PFE verification was conducted. The results of the post- mitigation PFE verification is included in Appendix A.

## **Section 5.0: Conclusions**

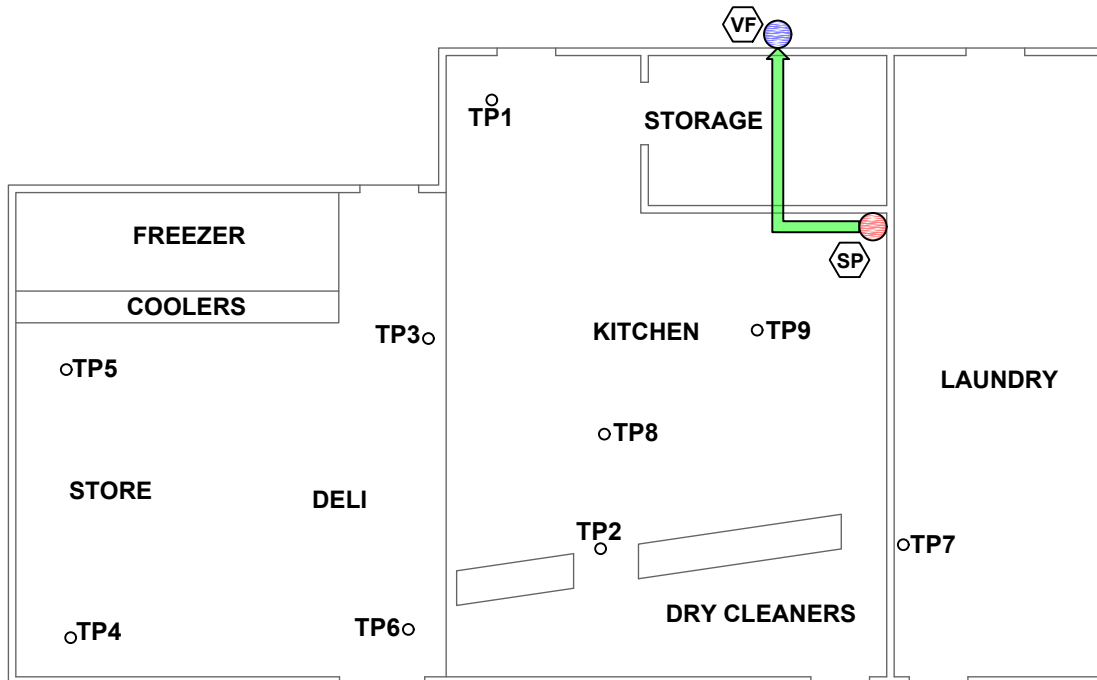
The sole purpose of this report is to summarize the mitigation system installed at the subject site. An uncertainty with any result due to statistical variations and other factors, such as daily and seasonal variations in contaminant of concern concentrations, does exist. Variations may be due to changes in weather conditions, environmental influence or building conditions and usage. The conclusions contained within this report are derived from information obtained from the client and the on-site activities conducted under the scope of work performed. This report was prepared solely for the use of the client. Use of this report by any party other than the client is prohibited without prior written consent from Protect Environmental.

Sub-slab depressurization was the mitigation technology utilized for this project. One (1) mitigation system was installed to mitigate one (1) building. Based on the observations made during the design-build process, and the results of post-mitigation verification data collection, the mitigation system is not providing adequate depressurization of the sub-slab porting the subject site.

**Appendix A:**

Post-Mitigation Pressure Field Extension Results

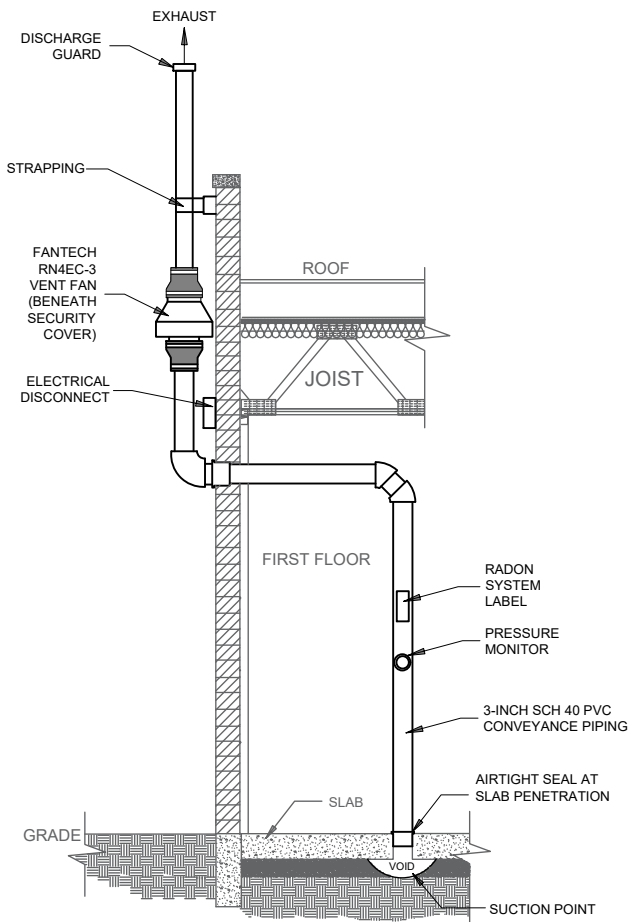
<b>PROJECT:</b>  <b>PETERS CLEANERS</b> <b>5094 WEST COLLEGE AVE</b> <b>GREENDALE, WI 53129</b>	<b>EVENT DATE: 11/22/2022</b>  <b>PE PROJECT #: WI22-934</b>  <b>LEAD TECH: BRIAN</b>  <b>FIELD TECH: GAGE</b>	<b>TEST LOCATION</b>  DELI & CLEANERS	<b>TESTING TYPE</b>  <input type="checkbox"/> PRE-MIT <input checked="" type="checkbox"/> POST-MIT <input type="checkbox"/> DIAG/PA
---	--	---	---



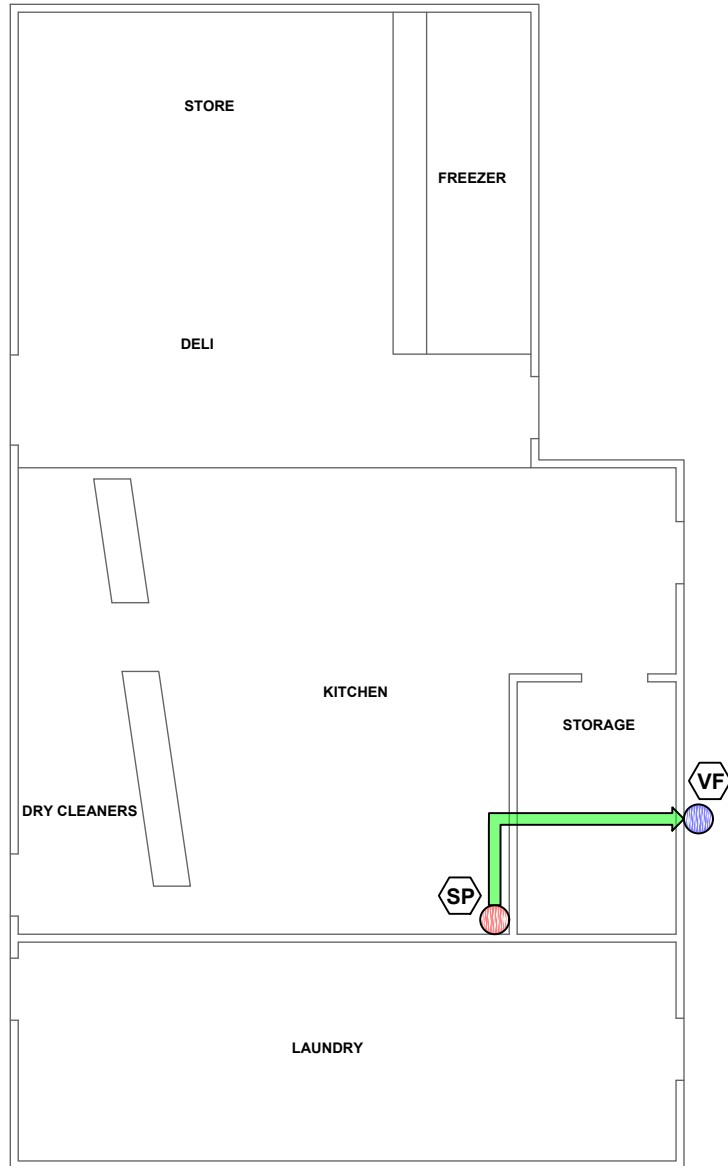
**FLOORPLAN**  
SCHEMATIC - NO SCALE

<b>PFE READINGS:</b>			
SUCTION PT 1	TOP 2.8"		
TP - 1	13 ft	ON:	+.0025"
TP - 2	50 ft	ON:	.000"
TP - 3	22 ft	ON:	.000"
TP - 4	78 ft	ON:	+.004"
TP - 5	64 ft	ON:	+.000"
TP - 6	66 ft	ON:	.000"
TP - 7	50 ft	ON:	.000"
TP - 8	36 ft	ON:	-.002"
TP - 9	15 ft	ON:	-.047"

**Appendix B:**  
Mitigation System Design



**INTERIOR ACTIVE MITIGATION SYSTEM DETAIL (TYPICAL)**  
SCHEMATIC - NO SCALE



**MITIGATION SYSTEM LOCATIONS**  
NO SCALE

**PETERS DRY CLEANERS - KITCHEN**

These plans depict the details of an active radon mitigation system design. The design has been developed in accordance with the reference standard, *Radon Mitigation Standards for Schools and Large Buildings (ANSI/AARST RMS-LB 2018)*, under the direct supervision of a Qualified Radon Professional. The design may be modified by Protect Environmental, as necessary, to address property conditions and construction restraints. All work must be conducted in accordance with the Project Specifications under the direct supervision of a Qualified Radon Professional.

**PROTECT ENVIRONMENTAL**

9822 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
PHONE: 502-410-8850  
TOLL FREE: 877-508-8850

PE PROJECT #: WI22-934

DRAWING DATE  
12/21/2022

SHEET  
MD1.1

**LEGEND:**

- SUCTION POINT LOCATION
- VENT FAN LOCATION
- 3-INCH SCH. 40 PVC PIPE CONVEYANCE

**PETERS DRY CLEANERS**  
5094 WEST COLLEGE AVENUE  
GREENDALE, WI 53129

**Appendix C:**  
Mitigation Project Specifications



# VAPOR MITIGATION PROJECT SPECIFICATIONS

**PROPERTY:** Former Peter Dry Cleaners  
5094 West College Avenue  
Greendale, WI 53129

## PART 1 – GENERAL

### 1.0 SUMMARY

- 1.0.1 Conduct all work necessary to install vapor mitigation systems to maintain the pressure field extension (PFE) performance benchmark of  $\geq$  -.010-inches w.g. induced sub-slab pressure differential throughout the target mitigation areas with reference to the indoor air environment.
- 1.0.2 Conduct post-mitigation PFE testing to verify the performance benchmark of  $\geq$  -.004-inches w.g. induced sub-slab pressure differential throughout the target mitigation areas with reference to the indoor air environment has been met.
- 1.0.3 Provide a written long-term operation and maintenance program plan upon completion of the project to facilitate basic maintenance and long-term stewardship.

### 1.1 REFERENCES

- 1.1.1 The publications listed below form a part of these specifications to the extent referenced. The publications are referred to within the text by the basic designation only.

American National Standards Institute (ANSI):

*Radon Mitigation Standards for Schools and Large Buildings (AARST/ANSI RMS-LB 2018)*

### 1.2 DEFINITIONS

- 1.2.1 Active soil depressurization (ASD): A family of mitigation systems involving mechanically-driven soil depressurization, including sub-slab depressurization (SSD), sub-membrane depressurization (SMD), block wall depressurization (BWD), crawl space depressurization (CSD) and drain-tile depressurization (DTD).
- 1.2.2 Collateral mitigation: The ability to mitigate more than one occupied area with a single mitigation system.
- 1.2.3 Depressurization: A negative pressure induced in one area relative to another.
- 1.2.4 Diagnostic procedures: One or multiple procedures for identifying or characterizing conditions under, beside and within buildings to project the effects of various system designs. Diagnostic procedures can include: sub-slab pressure field extension testing; visual observations; characterization of pressure or air exchange rates between indoors and outdoors, and between floors or adjoining air spaces; and, diagnostic volatile organic compound (VOC) testing at

locations of interest (e.g. common areas, mechanical spaces and spaces not in ground contact).

- 1.2.5 Diagnostic testing: VOC testing intended to confirm specific conditions or effect of vapor mitigation activities. Testing locations are identified by their relationship to the specific information being sought. Diagnostic testing results are not a substitute for testing in accordance with required regulatory testing.
- 1.2.6 Jurisdictional authorities: Governing authorities that regulate specific installation requirements or manner of activities.
- 1.2.7 Mitigation installer: A staff member or sub-contractor who participates in installation of mitigation systems and therefore, regardless of qualifications or other obligations herein, is included in considerations for worker health and safety.
- 1.2.8 Mitigation system: Any system or steps designed to reduce COC concentrations or other pollutants in the indoor air of a building.
- 1.2.9 Point of discharge: The physical location of piping or duct material at which an ASD system exhausts soil air.
- 1.2.10 Pressure field extension: The distance that a pressure change, created by drawing soil gas through a suction point, extends outward in a sub-slab gas permeable layer, under a membrane, behind a solid wall or in a hollow wall.
- 1.2.11 Pressure field extension test: A diagnostic procedure to evaluate the potential effectiveness of an ASD system by using a shop vacuum or other fan or vacuum device to draw air from the space below a slab or from the cavities inside a block wall. Measuring the change in pressure at various small testing holes through the slab or the block wall using a micro-manometer can provide evidence of the potential effectiveness of an ASD system.
- 1.2.12 Qualified Mitigation Professional: An individual who has demonstrated a minimum degree of appropriate technical knowledge and skill specific to vapor mitigation of schools and large buildings: a) as established in certification requirements of the National Radon Proficiency Program (NRPP); and, b) as required by statute, state licensure or certification program, where applicable.
- 1.2.13 Remote Monitoring System: The Vapor Sentinel™ remote monitoring system. Information available at [www.VaporSentinel.com](http://www.VaporSentinel.com).
- 1.2.14 Soil gas collection plenum: A 3-dimensional enclosure, in whatever shape it may be, for collecting VOC's and other soil gases from under slabs, soil gas retarders and from behind walls, that surrounds a void or gas permeable layer. This description of the cavity under a foundation observes that there are at least six sides to this enclosed airspace and that none are perfectly sealed, especially at the side facing soil.
- 1.2.15 Suction pit: Space that exists or is created below the suction pipe.
- 1.2.16 Suction point: Location at which suction piping is routed through the slab, foundation or membrane.

### **1.3 QUALITY ASSURANCE**

- 1.3.1 All mitigation work must meet the requirements specified in AARST/ANSI RMS-MF 2018 and must be conducted under the direct supervision of the Qualified Mitigation Professional. Any deficiencies in mitigation work must be corrected by the contractor responsible for the scope of work determined to be deficient.
- 1.3.2 All PFE testing must meet the requirements specified in AARST/ANSI RMS-MF 2018 and must be conducted under the direct supervision of the Qualified Mitigation Professional. On completion of mitigation, post-mitigation PFE testing must be conducted to verify the performance benchmark of  $\geq$  -.004-inches w.g. induced sub-slab pressure differential throughout the target mitigation areas with reference to the indoor air environment has been met.
- 1.3.2 On completion of the project to referenced standards, the Qualified Mitigation Professional must certify the project as complete.

### **1.4 HEALTH AND SAFETY**

- 1.4.1 Federal, state and local standards or regulations relating to Mitigation Installer safety and health, including occupational VOC exposure, shall be complied with at all times.
- 1.4.2 A project health and safety plan must be maintained and made available to all Mitigation Installers on request. The plan must include, at minimum: a) a personal protection equipment plan; and, b) Material Safety Data Sheets (MSDS) for all hazardous materials used and the safety procedures required for each one.
- 1.4.3 Altering pressure in the building, directly or indirectly, may cause flue gas spillage. Impacted occupants must be advised of any significant flue gas spillage observed. If flue gas spillage is observed to result from the mitigation system(s), the system(s) must be tagged for non-operation until the condition has been corrected.
- 1.4.4 In any planned work area where it is suspected that asbestos may exist and be disturbed, work must not be conducted until a qualified asbestos inspector determines that such work will be undertaken in a manner that complies with applicable asbestos regulations. For more information: [epa.gov/asbestos](http://epa.gov/asbestos).
- 1.4.5 In any planned work area where it is suspected that lead-based paint may exist and be disturbed, work must not be conducted until a qualified lead-based paint inspector determines that such work will be undertaken in a manner that complies with applicable lead-based paint regulations. For more information: [epa.gov/getleadsafe](http://epa.gov/getleadsafe) or [hud.gov/healthyhomes](http://hud.gov/healthyhomes) for federally-owned and target housing receiving federal assistance.

### **1.5 SUBMITTALS**

- 1.5.1 Pre-Mitigation Documentation:
  - Worker Health and Safety Plan
  - Mitigation Work Plan

- 1.5.2 Certifications:
  - Qualified Mitigation Professional credentials
  - Project Completion Certification
- 1.5.3 Post-Mitigation Documentation:
  - Post-mitigation report, to include PFE testing results
  - As-built design documentation
  - Operation, Maintenance and Monitoring program plan

## **PART 2 – PRODUCTS**

### **2.0 PERFORMANCE**

- 2.0.1 ASD mitigation systems must be installed in accordance AARST/ANSI RMS-MF 2018 and must maintain the performance benchmark of  $\geq$  -.004-inches w.g. induced sub-slab pressure differential throughout the target mitigation areas with reference to the indoor air environment.

### **2.1 COMPONENTS**

- 2.1.1 ASD Suction Point: suction point seal (Radon Away 67104 or equivalent)
- 2.1.2 ASD Piping, Joint Materials and Connections: 4-inch SCH 40 PVC, ASTM D2665; primer and cement, ASTM F656, ASTM D2564; connections, ASTM D5926
- 2.1.3 ASD Fan and Couplings: Fantech Rn4EC-3, (6-inch x 3-inch rubber couplings included with Fantech Rn4), ASTM D5926
- 2.1.4 ASD Discharge Point: 3-inch Discharge Guard (Radon Away 75041-1 or equivalent)
- 2.1.5 ASD Pressure Monitor: 5.0-inch WC (Radon Away 50026 or equivalent)
- 2.1.6 Sealants: polyurethane, ASTM C920 class 25 (or equivalent)
- 2.1.7 Security: Complete Fan Housing (Radon Away 28043 or equivalent)
- 2.1.8 Hardware: appropriate hangars and fasteners necessary to meet installation requirements
- 2.1.9 Labels: appropriate labels necessary to meet installation requirements
- 2.1.10 Electrical: Electrical work to be conducted by a qualified electrical contractor

## **PART 3 – EXECUTION**

### **3.0 ASD MITIGATION SYSTEM INSTALLATION**

- 3.0.1 Install ASD mitigation system(s) as specified herein and in accordance with AARST/ANSI RMS-MF 2018 under the direct supervision of the Qualified Mitigation Professional, specifically:
  - ASD Suction Point: Section 7.1, AARST/ANSI RMS-LB 2018
  - ASD Piping: Section 7.2-7.3, AARST/ANSI RMS-LB 2018
  - ASD Fan: Section 7.5, AARST/ANSI RMS-LB 2018
  - ASD Discharge: Section 7.4, AARST/ANSI RMS-LB 2018

- Sealants: Section 8.0, AARST/ANSI RMS-LB 2018
- Fan Monitor: Section 9.2, AARST/ANSI RMS-LB 2018
- Labels: Section 9.4, AARST/ANSI RMS-LB 2018
- Electrical: Section 9.3, AARST/ANSI RMS-LB 2018

### **3.1 POST-MITIGATION PFE TESTING**

- 3.1.1 Conduct post-mitigation PFE testing as specified herein and in accordance with AARST/ANSI RMS-LB 2018 under the direct supervision of the Qualified Mitigation Professional, specifically:
- Diagnostic Investigation: Section 6.2, AARST/ANSI RMS-LB 2018

### **3.2 OPERATION, MAINTENANCE AND MONITORING**

- 3.2.1 Provide an operation, maintenance and monitoring program plan as specified herein and in accordance with AARST/ANSI RMS-LB 2018 to be maintained under the general supervision of the Qualified Mitigation Professional, specifically:
- Documentation: Section 12.0, AARST/ANSI RMS-LB 2018

**- END OF SPECIFICATIONS -**

**Appendix D:**  
Mitigation Fan Specifications

# Installation and Operation Manual Manuel d'installation et d'opération

Item #: 142001  
Rev Date: 2019-07-19

## Rn2EC / Rn4EC



Inline EC Radon Fan • Ventilateur pour radon en ligne EC

### PARTS IN THE BOX (Rn2EC)

Inline Radon Fan Rn, 1 pc  
Operation and Installation Manual, 1 pc

### PIÈCES DANS LA BOÎTE (Rn2EC)

Ventilateur pour radon en ligne Rn, 1 pc  
Manuel d'installation, 1 pc

### PARTS IN THE BOX (Rn4EC)

Inline Radon Fan Rn, 1 pc  
LDVI™ Couplings, 2 pcs  
Operation and Installation Manual, 1 pc

### PIÈCES DANS LA BOÎTE (Rn4EC)

Ventilateur pour radon en ligne Rn, 1 pc  
Couplages LDVI™, 2 pcs  
Manuel d'installation, 1 pc



Rn2EC



Rn4EC

REGISTER\* THIS PRODUCT TO  
INCREASE YOUR PRODUCT  
WARRANTY BY AN EXTRA YEAR

[registration.fantech.app](https://registration.fantech.app)



\* in USA only

### Technical / Customer Support:






Support technique et service à la clientèle

United States Tel.: 800.747.1762

Canada Tel.: 800.565.3548



**fantech**®  
a systemair company

				
Note	Warning / Important note Avertissement / Note importante	Information	Technical information Information technique	Practical tip Conseil pratique



**DO NOT CONNECT POWER SUPPLY until fan is completely installed.  
Make sure electrical service to the fan is in the locked "OFF" position.**

1. Fantech recommends installation of this product by a trained, licensed, certified mitigation professional. Incorrect installation will void any and all product warranties or liability. Verification of safe/acceptable radon levels after installation is required.

Check your local code restrictions for additional safety measures that may be needed for proper code compliant installation.

2. This fan has rotating parts and safety precaution should be exercised during installation, operation and maintenance.

3. **WARNING! TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS - OBSERVE THE FOLLOWING:**

- a. Use this unit in the manner intended by the manufacturer. If you have any questions, contact your manufacturer's representative or contact us directly.
- b. **CAUTION:** Before installation, servicing or cleaning unit, switch power off at service panel and lock the service disconnection means to prevent power from being switched on accidentally. When the service disconnection means cannot be locked, securely fasten a prominent warning device, such as tag, to the panel.
- c. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- d. The combustion airflow needed for safe operation of fuel burning equipment may be affected by this unit's operation. Follow the heating equipment manufacturer's guidelines and safety standards such as those published by the National Fire Protection Association (NFPA), the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) and the local code authorities.
- e. When cutting or drilling into wall and ceiling, do not damage electrical wiring and other hidden utilities.
- f. Ducted fans must always be vented to the outdoors.

4. **WARNING!** Check voltage at the fan to see if it corresponds to the motor name plate.

5. For radon mitigation use only. **DO NOT** use to exhaust hazardous or explosive materials and vapors.

6. Do not use this fan with any solid state speed control device.

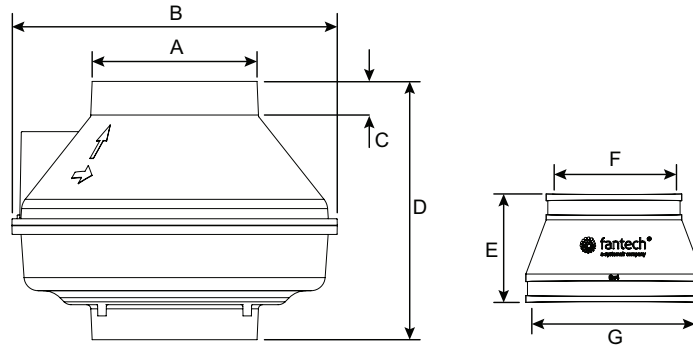
**GUARDS MUST BE INSTALLED WHEN FAN IS WITHIN REACH OF PERSONNEL OR WITHIN SEVEN (7) FEET OF WORKING LEVEL OR WHEN DEEMED ADVISABLE FOR SAFETY.**



The ducting from this fan to the outside of the building has a strong effect on the air flow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated air flow.



# DIMENSIONS



Model/ Modèle	A	B	C	D	E	F	G
Rn2EC	4 15/32 (114)	10 (254)	1 1/4 (32)	9 1/4 (235)	-	-	-
Rn4EC-3	5 7/8 (149)	11 1/2 (292)	1 1/4 (32)	9 1/4 (235)	4 (102)	3 1/2 (89)	6 (152)
Rn4EC-4	5 7/8 (149)	11 1/2 (292)	1 1/4 (32)	9 1/4 (235)	4 (102)	4 1/2 (114)	6 (152)

Dimensions in inches (mm).  
Dimensions en pouces (mm)

# INSTALLATION

Rn2EC-3 & Rn4EC-3 are designed for use with 3" schedule 40 PVC pipe.  
Rn2EC-4 & Rn4EC-4 are designed for use with 4" schedule 40 PVC pipe.

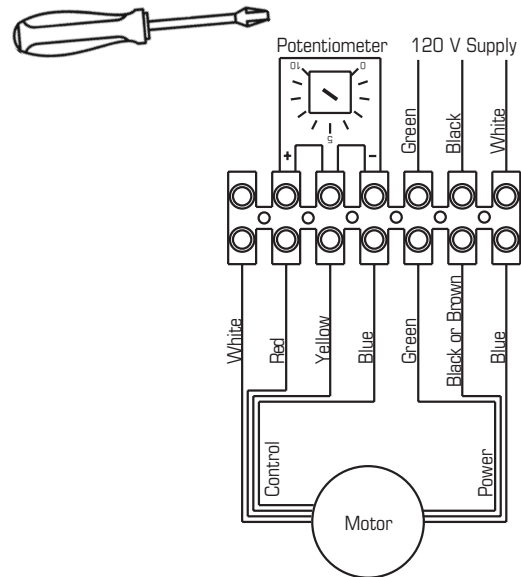
Prior to installation, the suction pipe should be terminated at the exterior wall. The suction pipe should be installed with slight incline to drain water from the fan.



# WIRING DIAGRAM



To reduce fan speed use a small screwdriver and turn potentiometer knob counter clockwise



DO NOT connect fan directly to building structure

# WARRANTY

## Five (5) Year Warranty

This warranty supersedes all prior warranties

### DURING ENTIRE WARRANTY PERIOD:

Fantech will repair or replace any part which has a factory defect in workmanship or material. Product may need to be returned to the Fantech factory, together with a copy of the bill of sale and identified with RMA number.

### FOR FACTORY RETURN YOU MUST:

- Have a Return Materials Authorization (RMA) number. This may be obtained by calling Fantech either in the USA at 1.800.747.1762 or in CANADA at 1.800.565.3548. Please have bill of sale available.
- The RMA number must be clearly written on the outside of the carton, or the carton will be refused.
- All parts and/or product will be repaired/replaced and shipped back to buyer; no credit will be issued.

### OR

The Distributor may place an order for the warranty part and/or product and is invoiced. The Distributor will receive a credit equal to the invoice only after product is returned prepaid and verified to be defective.

FANTECH WARRANTY TERMS DO NOT PROVIDE FOR REPLACEMENT WITHOUT CHARGE PRIOR TO INSPECTION FOR A DEFECT. REPLACEMENTS ISSUED IN ADVANCE OF DEFECT INSPECTION ARE INVOICED, AND CREDIT IS PENDING INSPECTION OF RETURNED MATERIAL. DEFECTIVE MATERIAL RETURNED BY END USERS SHOULD NOT BE REPLACED BY THE DISTRIBUTOR WITHOUT CHARGE TO THE

## Limitation of Warranty and Liability

This warranty does not apply to any Fantech product or part which has failed as a result of faulty installation or abuse, incorrect electrical connections or alterations made by others, or use under abnormal operating conditions or misapplication of the product or parts. We will not approve for payment any repair not made by us or our authorized agent without prior written consent. The foregoing shall constitute our sole and exclusive warranty and our sole exclusive liability, and is in lieu of any other warranties, whether written, oral, implied or statutory. There are no warranties which extend beyond the description on the page hereof. In no event, whether as a result of breach of contract, or warranty or alleged

## Warning

Fantech products are designed and manufactured to provide reliable performance, but they are not guaranteed to be 100% free from defects. Even reliable products will experience occasional failures and this possibility should be recognized by the user. If these products are used in a

END USER, AS CREDIT TO DISTRIBUTOR'S ACCOUNT WILL BE PENDING INSPECTION AND VERIFICATION OF ACTUAL DEFECT BY FANTECH.

### THE FOLLOWING WARRANTIES DO NOT APPLY:






- Damages from shipping, either concealed or visible. Claim must be filed with freight company.
- Damages resulting from improper wiring or installation.
- Damages or failure caused by acts of God, or resulting from improper consumer procedures, such as:
  1. Improper maintenance
  2. Misuse, abuse, abnormal use, or accident, and
  3. Incorrect electrical voltage or current.
- Removal or any alteration made on the Fantech label control number or date of manufacture.
- Any other warranty, expressed, implied or written, and to any consequential or incidental damages, loss or property, revenues, or profit, or costs of removal, installation or reinstallation, for any breach of warranty.

### WARRANTY VALIDATION

- The user must keep a copy of the bill of sale to verify purchase date.
- These warranties give you specific legal rights, and are subject to an applicable consumer protection legislation. You may have additional rights which vary from state to state.

negligence, defect incorrect advice or other causes, shall Fantech be liable for special or consequential damages, including, but not limited to, loss of profits or revenue, loss of use of equipment or any other associated equipment, cost of capital, cost of substitute equipment, facilities or services, downtime costs, or claims of customers of purchase for such damages. Fantech neither assumes or authorizes any person to assume for it any other liability in connection with the sale of product(s) or part(s). Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages so the above limitations and exclusions may not apply to you.

life support ventilation system where failure could result in loss or injury, the user should provide adequate backup ventilation, supplementary natural ventilation, failure alarm system, or acknowledge willingness to accept the risk of such loss or injury.

				
Note	Avertissement / Note importante	Information	Information technique	Conseil pratique



**NE PAS BRANCHER À L'ALIMENTATION ÉLECTRIQUE avant l'installation complète du ventilateur.**

**Assurez-vous que l'alimentation électrique du ventilateur est en position hors tension verrouillée (OFF).**

1. Fantech recommande l'installation de ce produit par un professionnel de l'atténuation formé, agréé et certifié. Une installation incorrecte entraînera l'annulation de toutes les garanties ou responsabilités du produit. La vérification des niveaux de radon sécuritaires / acceptables après l'installation est requise.  
Vérifiez les restrictions de votre code local pour les mesures de sécurité supplémentaires qui peuvent être nécessaires pour une installation conforme au code approprié.
2. Ce ventilateur comporte des pièces rotatives; il est essentiel de faire preuve de prudence pendant l'installation, le fonctionnement et l'entretien.
3. **AVERTISSEMENT! POUR RÉDUIRE LE RISQUE D'INCENDIE, D'ÉLECTROCUTION OU DE BLESSURES, VEUILLEZ RESPECTER LES RÈGLES SUIVANTES :**
  - a. Utilisez cet appareil de la manière prévue par le fabricant. Si vous avez des questions, communiquez avec le représentant du fabricant ou directement avec nous.
  - b. **MISE EN GARDE :** Avant d'installer, de réparer ou de nettoyer l'appareil, coupez l'alimentation électrique au panneau de service et bloquez les dispositifs de sectionnement pour éviter que l'alimentation ne soit rétablie par accident. Si les dispositifs de sectionnement ne peuvent pas être bloqués, apposez une note d'avertissement bien visible, comme une étiquette, sur le panneau de service.
  - c. Tous les travaux relatifs à l'installation et aux fils électriques devraient être effectués par un technicien qualifié, conformément aux normes et aux règlements en vigueur, y compris les travaux de construction classés résistants au feu.
  - d. Le fonctionnement de cet appareil pourrait modifier la circulation d'air de combustion nécessaire au fonctionnement sécuritaire des appareils de combustion. Suivez les consignes du fabricant pour les appareils de chauffage et respectez les normes de sécurité comme celles établies par la National Fire Protection Association (NFPA), la American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) ainsi que les codes des autorités locales.
  - e. Lorsque vous coupez ou percez un mur ou un plafond pour l'installation de l'appareil, assurez-vous de ne pas endommager le câblage électrique et les autres services publics cachés.
  - f. Les conduits d'air des ventilateurs doivent toujours être éventés à l'extérieur.
4. **AVERTISSEMENT!** Vérifiez la tension du ventilateur pour confirmer qu'elle correspond à celle inscrite sur la plaque signalétique du moteur.
5. Uniquement pour la mise en oeuvre de mesures d'atténuation du radon. **NE PAS** utiliser pour évacuer des vapeurs ou des substances dangereuses ou explosives.
6. Ne pas utiliser cet appareil avec une commande de vitesse à semiconducteurs.

**DES DISPOSITIFS PROTECTEURS DOIVENT ÊTRE INSTALLÉS SI LE VENTILATEUR SE TROUVE À PORTÉE DE MEMBRES DU PERSONNEL OU À SEPT (7) PIEDS OU MOINS DU NIVEAU DE FONCTIONNEMENT OU LORSQU'ILS SONT JUGÉS NÉCESSAIRES POUR DES RAISONS DE SÉCURITÉ**



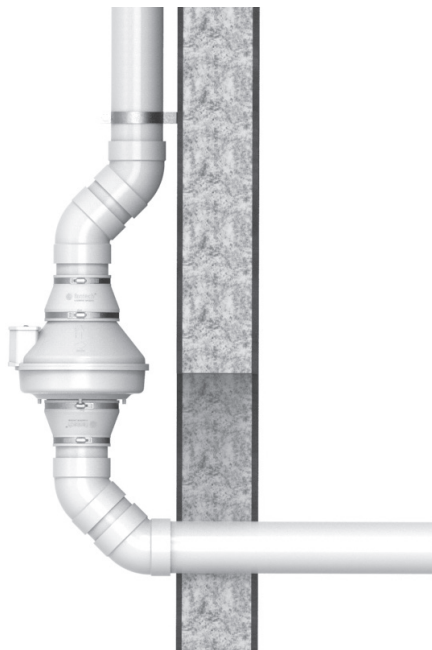
Le conduit de raccordement de ce ventilateur avec l'extérieur de l'immeuble a un effet important sur le débit d'air, le bruit et la consommation d'énergie du ventilateur. Veuillez utiliser le conduit le plus court et le plus droit possible pour obtenir un rendement optimal, et évitez d'installer des conduits plus petits que ceux recommandés pour le ventilateur. L'isolation autour des conduits peut réduire les pertes d'énergie et empêcher la moisissure. Les ventilateurs installés avec des conduits existants pourraient ne pas offrir le débit d'air nominal.

# INSTALLATION

Le modèle Rn2EC-3 & Rn4EC-3 est conçu pour un usage avec des conduits de PVC de série 40 de 3 po.

Le modèle Rn2EC-4 & Rn4EC-4 est conçu pour un usage avec des conduits de PVC de série 40 de 4 po.

Avant l'installation, il faut prévoir une sortie pour le tuyau d'aspiration sur un mur extérieur. Le tuyau d'aspiration devrait être installé avec une pente légère pour drainer l'eau du ventilateur.

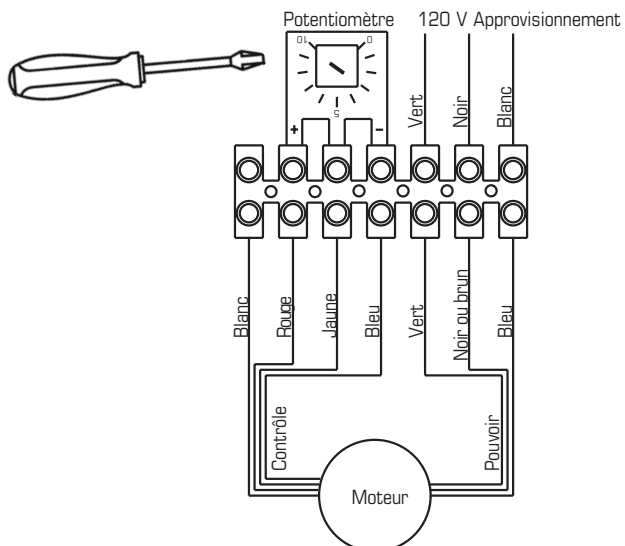


NE PAS attacher le ventilateur directement dans la structure du bâtiment.

## SCHÉMA ÉLECTRIQUE



Pour réduire la vitesse du ventilateur, utilisez un petit tournevis et tournez le bouton du potentiomètre dans le sens inverse des aiguilles d'une montre.



# GARANTIE

## Garantie de 5 ans

**Cette garantie remplace toutes les garanties précédentes.**

### DURANT TOUTE LA PÉRIODE DE GARANTIE:

Fantech s'engage à réparer ou à remplacer toute pièce présentant un défaut d'usine en matière de qualité d'exécution ou de matériau. Il sera peut être nécessaire de retourner le produit à l'usine Fantech, accompagné d'une copie du contrat de vente et du numéro d'autorisation de retour.

### POUR RETOURNER UN PRODUIT À L'USINE, VOUS DEVEZ:

- Obtenir un numéro d'autorisation de retour; pour ce faire, communiquer avec Fantech aux États-Unis au numéro 1.800.747.1762, ou au Canada, au numéro 1.800.565.3548. Veuillez avoir votre contrat de vente à portée de la main.
- S'assurer que le numéro d'autorisation de retour est lisible sur l'extérieur de la boîte, sinon la boîte sera refusée.
- Toutes les pièces et/ou le produit seront réparés ou remplacés puis retournés à l'acheteur. Aucun crédit ne sera accordé.

OU

Le Distributeur peut commander une pièce ou un produit couvert par la garantie; la facture lui sera envoyée. Le distributeur ne sera crédité du montant de sa facture qu'après que le produit a été retourné port payé et qu'il a été trouvé défectueux.

LES TERMES DE LA GARANTIE DE Fantech NE PRÉVOIENT PAS DE REMPLACEMENT SANS FRAIS AVANT QUE LA PIÈCE OU LE PRODUIT DÉFECTUEUX AIT ÉTÉ INSPECTÉ. LES PRODUITS OU PIÈCES REMPLACÉS AVANT L'INSPECTION DE LA DÉFECTUOSITÉ SERONT FACTURÉS ET LE MONTANT DU CRÉDIT EST FONCTION DE L'INSPECTION DE LA PIÈCE OU DU PRODUIT RETOURNÉ. LE DISTRIBUTEUR NE DOIT PAS REMPLACER SANS FRAIS POUR

## Limites de garanties et de responsabilités

Cette garantie ne s'applique à aucun produit de Fantech ou à aucune pièce détachée dont la défectuosité relève d'une erreur d'installation ou d'abus ou de mauvaise installation électrique ou dut à des modifications extérieures ou utilisées dans des conditions anormales ou encore une mauvaise installation du produit ou des pièces détachées. Nous n'approuverons aucun remboursement pour des réparations qui ne sont pas effectuées par un agent américain ou un agent autorisé sans un accord écrit. Ce dernier constituera notre seule et exclusive garantie et notre seule exclusive responsabilité et tient lieu de toute autre garantie ou bien écrite ou orale implicite ou statuaire. Aucune garantie ne s'appliquera au-delà des descriptions faites de la page ci-dessus. En aucun cas, que ce soit pour une rupture de contrat ou de garanties ou

## Avertissement

Les produits de Fantech sont conçus et fabriqués pour produire des performances fiables, mais il n'y a aucune garantie qu'ils soient 100% sans défaut. Les plus produits les plus fiables ont occasionnellement des défectuosités et cette possibilité devrait être reconnu par les usagers. Si ces produits sont utilisés comme une source de ventilation ou leur panne risque de mettre en danger des vies humaines ou entraîner des

L'UTILISATEUR FINAL L'ÉQUIPEMENT DÉFECTUEUX RETOURNÉ PAR L'UTILISATEUR FINAL, CAR LE COMPTE DU DISTRIBUTEUR NE SERA CRÉDITÉ QU'APRÈS L'INSPECTION ET LA VÉRIFICATION PAR FANTECH DE LA DÉFECTUOSITÉ.

### LES GARANTIES NE S'APPLIQUENT PAS DANS LES CAS SUIVANTS:

- Dommages dus au transport (dissimulés ou visibles). Les réclamations doivent être faites à la compagnie de fret.
- Dommages dus au mauvais câblage ou à l'installation inappropriée.
- Dommages ou défectuosité causés par une calamité naturelle ou résultant d'une procédure irrégulière de l'acheteur, notamment :
  1. Entretien irrégulier
  2. Mauvais usage, usage abusif, usage anormal ou accident
  3. Tension ou courant électrique incorrect
- Enlèvement ou toute modification du numéro de contrôle ou de la date de fabrication de l'étiquette Fantech
- Toute autre garantie expresse, écrite ou implicite, pour les dommages accidentels ou indirects, perte de biens, de recettes, manque à gagner ou coûts relatifs à la dépose, à l'installation ou à la réinstallation, en cas de violation de garantie.

### CERTIFICATION DE LA GARANTIE:

- L'utilisateur doit conserver une copie du contrat de vente pour confirmer la date d'achat.
- Les présentes garanties vous donnent des droits spécifiques reconnus par la loi et sont régies par les lois sur la protection du consommateur appropriées. Il est possible que différents états offrent d'autres droits.

des dommages dut à la négligence ou a des conseils incorrects ou autres causes, Fantech ne pourra être tenu pour responsable des dommages particuliers ou consécutifs, incluant mais pas limités aux pertes et profits ou bénéfiques perte de matériel ou autres matériels associés. Coût du capital, coût des équipements de remplacement, matériels ou services, coût de temps d'arrêt ou les réclamations des clients pour de tels dommages. Fantech ne délègue ou autorise aucune personne d'assumer sa responsabilité sur la vente du produit ou des pièces détachées. Certaines juridictions ne permettent pas l'exclusion de la limitation des dommages accidentels ou consécutifs ainsi ces limitations ci-dessus et les exclusions ne s'appliquent pas à vous.

blessures, les usagers devront avoir une source de ventilation de secours en addition à une ventilation naturelle, le défaut de système d'alarme ou la connaissance de ces conditions entraînent sa responsabilité envers de telles pertes ou blessures.

Fantech reserves the right to make technical changes.  
For updated documentation please refer to [www.fantech.net](http://www.fantech.net)

Fantech se réserve le droit de faire des changements techniques. Pour de la documentation à jour, s'il vous plaît se référer au [www.fantech.net](http://www.fantech.net)

Fantech®

**Appendix E:**  
Credential Documentation



Click for more info

## Greg J. Lauer Protect Environmental, LLC



Louisville, KY

### Total NRPP Training/Education Credits: 120



(502) 410-5000

- Multi-Family Measurement Certificate (MFM)
- Multi-Family Mitigation Certificate (MFMT)



Company Website

### Certified as a Radon Measurement Professional



Contact

- Certified by the National Radon Proficiency Program (NRPP)
- NRPP Certification **#109534-RMP**
- Certified since: December 21, 2017
- Certification Expires: December 31, 2023



### Certified as a Radon Mitigation Specialist



- Certified by the National Radon Proficiency Program (NRPP)
- NRPP Certification **#109535-RMS**
- Certified since: December 21, 2017
- Certification Expires: December 31, 2023

### Kentucky

State Radon Office Contact

Clay Hardwick

Clay.hardwick@ky.gov

(502) 564-4856

Radon Office Website

### American Association of Radon Scientists and Technologists (AARST)

- AARST Member ID: A6006
- Member since: December 21, 2017
- AARST Advanced Radon Measurement/Mitigation Professional (ARP)



**ATTACHMENT 3**

## Peters Dry Cleaners

5094 W College Ave.

Greendale, WI

WDNR BRRTS No. 02-41-284323

VMS Maintenance

### MAINTENANCE PROCEDURES

This document presents procedures and schedules for the maintenance of the equipment and instrumentation, troubleshooting information, and periodic inspection procedure and documentation.

#### 1.1 System Fan

- For maintenance procedures and warranty information please refer to the Installation Report provided.
- For warranty purposes the date of warranty is November 22, 2022.

#### 1.2 System Monitoring Devices

- No maintenance is required for the installed monitoring devices.

#### 1.3 System Periodic Inspection







A periodic inspection is recommended to verify the SSDS is operating as designed. At a minimum, an annual inspection should be performed. The attached log should be completed and submitted to the WDNR.

#### Inspection Procedures:

- System Fan: Observe the fan during operation. Pay special attention to any abnormal noises coming from the fan, such as buzzing or scraping, cyclical pointed sounds, or no operational sound at all, etc. Repair or replace any observed damage affecting fan operation. Also, observe the exhaust stack for possible obstructions (e.g. ice).
- System Piping and Connections: Inspect the exposed system piping and connections for any breach or damage. Repair or replace any observed damage affecting system operation.
- Slab / System Interface Seals: Inspect the caulk seal at each of the extraction points (a breach in the seal should produce an air leak noise when the system is in operation). If breach is observed, caulk with polyurethane caulk. Check concrete floors and sumps for cracks or broken seals and repair as necessary.
- Pressure Gauges: Test system pressure gauges for functionality. Remove input line or shut down system to verify pressure gauges return to a zero reading. Replace any dysfunctional pressure gauges and restore sub-system operation.
- Electrical: Observe electrical components for damage and have repaired/replaced by licensed electrician. Test system electrical disconnects / switches / receptacles for function. A licensed electrician should repair/replace dysfunctional components.
- Documentation: Complete the attached log for each periodic inspection and maintain a logbook of the periodic inspections for the life of the SSDS.

**SSDS Inspection and Repair Log**  
Former Dutch Cleaners  
403 S. Main Street, Cedar Grove, Wisconsin

**Peters Dry Cleaners**  
5094 W College Ave.  
Greendale, WI  
WDNR BRRTS No. 02-41-284323  
VMS Annual Inspection log

SYSTEM COMPONENT					ANNUAL INSEPECTION	
Name/Photo	WHAT DOES IT DO?	WHAT DO I CHECK?	WHAT SHOULD I SEE?	WHAT TO FIX?	DATE	NOTES
Fan 	Fan creates a vacuum and lowers pressure below foundation. The fan also removes soil gases from below foundation for discharge to atmosphere.	Fan Operation Fan Location Motor Noise	Fan is on  Fan mounted outside & secure  Fan motor is quiet (loud motor may indicate problem)	Fan may need to be replaced every 10 to 20 years.  Replacement fan to have similar specifications as original with respect to flow and vacuum.  ORIGINAL = Model RP265		
Suction Point 	Soil gases are collected in drain tile below the foundation, and tight seal prevents soil gas from getting inside the structure. Pipe conveys the vacuum from the fan, and collects soil gases for discharge to the atmosphere.	Pipe and Floor Seal Integrity		Floor seals or vent pipe may need to be re-sealed or replaced if cracks or leaks appear.  See NOTE below regarding pipe alternations. Have professional test pressures if pipes are modified		
Differential Pressure Gauge 	Measures differential pressure between vacuum side of vent pipe and indoor space. This measurement confrims there is a vacuum being pulled by the fan.	Vent Pipe Condition  Liquid Level on Manometer	Floor seal is air tight around edge and at pipe penetrations.  Liquid level in manometer is between 0.2 and 1.0 on the right-hand side.	A change in liquid level indicates a change in the vacuum below foundation. This could be caused by failure of fan, blockage of vent pipe, change in water level below building, or other conditions.  Troubleshoot or hire professional to identify cause and repair if		
Outdoor Vent Pipe 	Pipe carries soil gas outside and vents them to the atmosphere.	Vent Pipe Condition  Vent Pipe Location	Vent pipe remains connected to fan.  End of pipe free from obstructions.  The exhaust is more than 15 feet from windows or	Vent pipe may require replacement, or cleaning to remove ice or debris.  See NOTE below regarding pipe alternations. Have professional test pressures if pipes are modified.		
Foundation Floor 	The foundation is an important barrier that minimizes soil gas entry into building, and helps the fan to work efficiently.	Foundation Condition  Foundation Footprint	No penetrating cracks or holes in foundation below grade.  Check if there have been alterations or additions to building.	Seal cracks or other penetrations as you would to prevent water from entering.  If building floor plan has changed, contact a professional contractor and/or the DNR to evaluate if modifications to the vapor mitigation system are necessary.		
Test Point Vapor Pin 	This is a sample port to measure vacuum or collect soil gas sample(s) <u>if needed</u> .	Pin Seal/Cap  Pin Condition	Vacuum measured with a manometer at vapor pin should be greater than -0.004 in H2O.  Pin is sealed and capped when not in use.	If system maintenance is required, professionals may test negative pressure using this port.  Permanently seal hole if vapor pin is ever removed.		

NOTE: Minimize alternations to vent pipes. Changes to fittings, diameter, material type, or number of bends, can cause pressure losses that make system less effective.

Submitt form with Annual reporting to the WDNR