

# K P R G

ENVIRONMENTAL CONSULTATION & REMEDIATION

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**KPRG and Associates, Inc.**

## **STATUS REPORT**

January 29, 2021

Mr. J. Gregory Moll, P.G.  
Wisconsin Department of Natural Resources  
2300 N. Dr. Martin Luther King Drive  
Milwaukee, WI 53212

VIA E-mail and FedEx

KPRG Project 10009

Re: Status Report January 2021  
Former Bask Dry Cleaners – Waukesha, WI  
BRRTS# 02-68-297669, FID# 268188800

Dear Mr. Moll:

KPRG and Associates, Inc. (KPRG), completed additional site investigation work for the above referenced site. The work included an additional well installation and subsequent groundwater sampling of the newly installed well.

Based on the WDNR request that an additional well be installed to the east of MW-22, MW-24 was drilled and installed in November 2020 at the location shown on Figure 1. The boring log and well construction summary for this well are included in Attachment 1. The well was sampled on December 2, 2020 and the results were non-detect for all chlorinated volatile organic compounds (CVOCs) analyzed. This WDNR requested well was intended to define the down-gradient extent of impacts. As the data from this well was below the standards, the down-gradient extent of impacts has been defined. Table 1 provides a summary of the CVOC data generated to date. A copy of the analytical data package is included in Attachment 2.

If there are any questions, please contact me at 262-781-0475.

Sincerely,  
KPRG and Associates, Inc.



Patrick Allenstein, P.G.  
Senior Geologist

cc: Mr. Greg Butts, former Bask Dry Cleaners  
Mr. Donald Gallo, Axley Brynelson, LLP

**FIGURE**



**LEGEND**

- MW-12  
 EXISTING MONITORING WELL,  
 PIEZOMETER LOCATION
- MW-1  
 ABANDONED MONITORING  
 WELL, PIEZOMETER LOCATION

ENVIRONMENTAL CONSULTATION & REMEDIATION



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**MONITORING WELLS LOCATION MAP**

WESTBROOK SHOPPING CENTER  
 WAUKESHA, WISCONSIN

Scale: 1" = 130'      Date: January 26, 2021

KPRG Project No. 10009      FIGURE 1

## **TABLE**

Table 1. Summary of Groundwater Analytical Results - former Bask Dry Cleaners

Sample Parameter	Date	WDNR NR 140 Standards		MW-1													MW-3														
		PAL	ES	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/18/12	01/18/13	10/22/14	06/30/15	06/01/16	09/20/16	05/22/17	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/18/12	01/18/13	10/22/14	06/30/15	06/02/16	09/22/16	05/24/17
cis-1,2-Dichloroethene		7.0	70	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41
trans-1,2-Dichloroethene		20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35	
Tetrachloroethene		0.5	5.0	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.17	<0.17	<0.17	<0.17	<0.37	<0.37	<0.37	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<b>0.77 J</b>	<b>1.6</b>	<0.17	<0.17	<0.37	<b>0.53</b>	<0.37	
Trichloroethene		0.5	5.0	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.16	<0.16	<0.16	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.16	<0.16	<0.16	
Vinyl Chloride		0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	
Dissolved Oxygen (mg/l)		NE	NE	U	4.99	3.76	4.55	5.01	5.27	6.04	5.18	5.13	4.38	6.15	6.97	5.55	5.61	U	0.10	0.75	0.02	0.03	0.30	0.13	0.02	0.07	0.12	0.50	1.37	0.13	0.14
Oxidation-Reduction Potential		NE	NE	U	37.2	285	273	287.2	49.9	267.9	212.8	87.7	181.9	201.3	77.8	150.5	224.1	U	-130	97.7	-162.5	54.2	-34.1	33.6	142.3	73.4	43.7	54.7	256.4	147.8	101.3

Sample Parameter	Date	WDNR NR 140 Standards		MW-4													MW-5																
		PAL	ES	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/23/14	06/30/15	06/01/16	09/23/16	05/25/17	06/19/08	08/21/09	12/07/09	03/18/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	07/01/15	06/02/16	09/23/16	05/24/17	07/18/18	03/13/20
cis-1,2-Dichloroethene		7.0	70	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NS	NS	<0.12	NS	<0.41	<0.41	<0.41	<b>54.6</b>	<4.0	3.6 J	<b>170</b>	<b>17</b>	<b>1,500</b>	<b>1,300</b>	<b>470</b>	<b>370</b>	<b>100</b>	<b>39</b>	<b>7.2</b>	<b>7.2</b>	<b>49</b>	<b>14</b>	0.66
trans-1,2-Dichloroethene		20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	NS	NS	<0.25	NS	<0.35	<0.35	<0.35	<17.8	<4.0	<2.0	<0.20	<1.0	15	18 J	5.0	3.2	2.1	2.8	3.9	1.6	5.3	4.1	6.7	
Tetrachloroethene		0.5	5.0	<b>217</b>	<0.50	<b>3.2</b>	<b>3.2</b>	<b>0.69 J</b>	<0.50	<b>1.8 J</b>	NS	NS	<b>1.4</b>	NS	<0.37	<b>0.88</b>	<0.37	<b>1,840</b>	<b>180</b>	<b>180</b>	<b>660</b>	<b>96</b>	<b>200</b>	<b>46</b>	<b>2.3</b>	<b>3.6</b>	<b>1.3</b>	<b>0.64</b>	<b>8.4</b>	<b>5.3</b>	<0.37	<0.37	<0.37
Trichloroethene		0.5	5.0	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	NS	NS	<0.19	NS	<0.16	<0.16	<0.16	<b>16.7</b>	<1.6	<b>2.9</b>	<b>49</b>	<b>6.6</b>	<b>38</b>	<b>60</b>	<b>1.1</b>	<b>1.7</b>	0.26	<b>4.3</b>	<b>1.4</b>	<b>6.2</b>	<b>2.4</b>	<b>4.7</b>	<b>0.73</b>	
Vinyl Chloride		0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	NS	NS	<0.10	NS	<0.20	<0.20	<0.20	U	<1.6	<0.80	<0.80	<0.40	<b>12</b>	<b>9.0 J</b>	<b>7.3</b>	<b>2.5</b>	<b>0.89</b>	<b>8.9</b>	<b>1.1</b>	<b>1.2</b>	<b>8.5</b>	<b>3.4</b>	<0.20	
Dissolved Oxygen (mg/l)		NE	NE	U	2.75	1.31	5.20	1.10	1.67	NM	NS	NS	1.66	NS	3.64	5.21	1.97	U	3.18	0.66	NM	5.03	1.77	0.15	0.43	0.16	0.16	0.73	0.86	0.09	0.18	0.56	2.33
Oxidation-Reduction Potential		NE	NE	U	-82	209	-1.7	143.5	-4.6	NM	NS	NS	78.4	NS	240.0	49.6	193.2	U	30	-158	NM	-27.8	-13.7	-116.1	-71.4	-50.7	-56.9	-73.6	-96.7	-88.2	-66.1	-76.8	-86.2

Sample Parameter	Date	WDNR NR 140 Standards		MW-6													MW-7																		
		PAL	ES	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/22/16	05/25/17	07/19/18	03/13/20	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/02/16	09/23/16	05/24/17	07/18/18	03/13/20
cis-1,2-Dichloroethene		7.0	70	<b>44.5</b>	NS	<b>21 J</b>	<b>26 J</b>	<b>26 J</b>	<b>3,400</b>	<b>1,900</b>	<b>240</b>	<b>82</b>	<b>190</b>	<b>35</b>	<b>19</b>	<b>76</b>	<b>61</b>	<b>210</b>	<b>1400</b>	2.5	0.86 J	<0.50	<0.50	<0.50	0.62 J	<0.50	4.3	3.4	1.3	<0.12	<0.41	0.84	<0.41	<0.41	<0.41
trans-1,2-Dichloroethene		20	100	<4.4	NS	<20	<16	<8.0	<b>37</b>	<b>50</b>	11	3.9	9.2	1.6	1.0	3.5	2.4	9.7	<b>20</b>	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	1.8	0.74	<0.35	<0.35	<0.35	0.74	<0.35	
Tetrachloroethene		0.5	5.0	<b>653</b>	NS	<b>1,700</b>	<b>1,400</b>	<b>500</b>	<b>430</b>	<b>400</b>	<b>320</b>	<b>260</b>	<b>220</b>	<b>140</b>	<b>70</b>	<b>96</b>	<b>99</b>	<b>230</b>	<b>430</b>	<b>48.5</b>	<b>22</b>	<b>30</b>	<b>35</b>	<b>30</b>	<b>34</b>	<b>29</b>	<b>1.7</b>	<b>1.2</b>	<0.17	<0.17	<b>1.5</b>	<b>2.1</b>	<b>9.0</b>	<0.37	<b>16</b>
Trichloroethene		0.5	5.0	<b>8.9</b>	NS	<b>8.4 J</b>	<b>690</b>	<b>640</b>	<b>450</b>	<b>230</b>	<b>160</b>	<b>57</b>	<b>69</b>	<b>22</b>	<b>6.5</b>	<b>13</b>	<b>17</b>	<b>44</b>	<b>69</b>	<b>4.7</b>	<b>3.2</b>	<b>1.9</b>	<b>1.4</b>	<b>2.0</b>	<b>11</b>	<b>2.8</b>	<b>18</b>	<b>10</b>	<b>6.0</b>	<b>2.3</b>	<b>2.2</b>	<b>7.8</b>	<b>4.8</b>	<b>2.4</b>	<b>1.6</b>
Vinyl Chloride		0.02	0.2	U	NS	<8.0	<6.4	<3.2	<2.0	<4.0	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<b>0.64</b>	<b>23</b>	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<b>0.28</b>	<0.20	<0.20	<0.20	<0.20	<0.20
Dissolved Oxygen (mg/l)		NE	NE	U	NS	2.43	0.64	1.20	0.33	0.46	0.77	3.74	0.08	0.94	1.93	0.24	0.4	1.24	2.16	U	2.84	2.10	1.86	1.80	0.61	0.05	0.38	0.00	0.21	0.64	1.83	0.55	1.16	0.93	1.91
Oxidation-Reduction Potential		NE	NE	U	NS	-46.7	-171.2	-117.8	-30.7	13.1	-18.1	75.2	92.2	78.5	100.3	81.8	110.8	79.6	60.7	U	-53.4	-194	-199.9	-142.9	-90.6	-196.8	-106.3	-36.7	-62.8	-71.6	-70.7	-48.8	-8.7	-80.1	23.1

Notes: All values are in µg/l unless otherwise noted.  
 PAL - Preventative Action Limit  
 ES - Enforcement Standard  
 NE - Standard Not Established

NS - Not Sampled  
 NM - Not Measured  
 U Pre Injection Data (unknown)

**BOLD** - Result exceeds the PAL  
**BOLD** - Result exceeds the ES

ET - Endpoint timeout caused by matrix interference.  
 J - Estimated value. Result between method detection limit and limit of quantification.  
 M - The MS and or MSD were outside control limits.  
 pH - The pH was outside range and the sample was adjusted.

Sample Parameter	Date	WDNR NR 140 Standards		MW-8															MW-9														
		PAL	ES	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/22/16	05/23/17	07/19/18	03/13/20	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/18/12	01/18/13	10/22/14	06/30/15	06/02/16	09/22/16	05/23/17
cis-1,2-Dichloroethene		7.0	70	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41	<0.41	<0.41	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41
trans-1,2-Dichloroethene		20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35	
Tetrachloroethene		0.5	5.0	<0.45	<0.50	<0.50	<0.50	<0.50	<b>1.2 J</b>	<0.50	<b>1.3</b>	<b>1.7</b>	<b>1.8</b>	<b>2.7</b>	<b>1.8</b>	<b>2.9</b>	<b>0.53</b>	<b>4.1</b>	<0.37	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.17	<0.17	<0.17	<0.17	<0.37	<0.37	<0.37	
Trichloroethene		0.5	5.0	<0.48	<0.20	<0.20	<0.20	<0.20	<b>0.58 J</b>	<0.20	<b>0.62</b>	0.41	0.36	<0.19	<0.16	<0.16	<0.16	<0.16	<0.16	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.16	<0.16	<0.16	
Vinyl Chloride		0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	
Dissolved Oxygen (mg/l)		NE	NE	U	2.57	4.96	3.91	6.00	1.86	7.05	3.92	1.44	1.80	3.09	4.89	2.11	6.77	4.99	3.10	U	4.93	3.83	5.84	4.91	4.80	4.98	4.27	4.71	3.65	5.61	6.06	3.94	4.74
Oxidation-Reduction Potential		NE	NE	U	-60.7	143	212.9	80.5	-1.2	127.07	61.5	76.5	137.7	123.3	240.2	195.1	168.2	91.5	105.9	U	-67.9	60	-44.1	26.2	18.5	74.13	159.2	70.6	74.7	73.3	63.2	117.7	3.8

Sample Parameter	Date	WDNR NR 140 Standards		MW-10															MW-11																
		PAL	ES	06/19/08	08/20/09	12/07/09	03/18/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/22/16	05/23/17	07/19/18	03/13/20	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/02/16	09/22/16	05/24/17	07/18/18	03/13/20
cis-1,2-Dichloroethene		7.0	70	<0.83	2.5	2.2	<0.50	1.0 J	1.5 J	1.1 J	0.77 J	<0.12	<b>12.0</b>	4.3	2.8	<b>7.7</b>	2.7	3.8	<b>7.9</b>	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41	<0.41	<0.41
trans-1,2-Dichloroethene		20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35	<0.35	<0.35	
Tetrachloroethene		0.5	5.0	<b>2.8</b>	<b>15</b>	<b>11</b>	<b>7.4</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>12</b>	<b>11</b>	<b>14</b>	<b>9.6</b>	<b>16</b>	<b>9.9</b>	<b>17</b>	<b>13</b>	<b>6.5</b>	<b>2.9</b>	<b>1.8</b>	<b>3.1</b>	<b>3.9</b>	<b>1.7 J</b>	<b>4.6</b>	<b>1.4</b>	<b>2.5</b>	<b>1.1</b>	<b>1.5</b>	<b>1.4</b>	<b>1.1</b>	<b>3.5</b>	<b>1.9</b>	<b>3.6</b>
Trichloroethene		0.5	5.0	<0.48	<b>0.94</b>	<b>1.2</b>	0.41 J	<b>0.85 J</b>	<b>1.7 J</b>	<b>0.93 J</b>	<b>0.89</b>	<b>0.85</b>	<b>4.0</b>	<b>3.5</b>	<b>1.9</b>	<b>4.4</b>	<b>1.5</b>	<b>2.0</b>	<b>1.1</b>	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.16	<0.16	<0.16	<0.16	
Vinyl Chloride		0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	
Dissolved Oxygen (mg/l)		NE	NE	U	5.19	4.24	NM	5.01	3.46	6.46	5.15	7.25	4.67	7.85	7.19	7.33	8.06	6.88	2.61	U	2.66	2.31	5.82	3.55	1.81	2.23	1.77	2.43	1.78	3.15	4.13	4.27	4.38	2.91	2.15
Oxidation-Reduction Potential		NE	NE	U	-60.7	154	NM	145.9	14.1	155.3	103.3	74.9	136.9	114.0	275.2	180.9	165.9	84.2	108.7	U	-84.2	155	121.1	-23.4	-9.0	59.7	184.9	69.7	118.9	79.0	147.3	144.0	184.4	121.9	99.2

Notes: All values are in µg/l unless otherwise noted.  
PAL - Preventative Action Limit  
ES - Enforcement Standard  
NE - Standard Not Established

NS - Not Sampled  
NM - Not Measured  
U - Pre Injection Data (unknown)

**BOLD** - Result exceeds the PAL  
**BOLD** - Result exceeds the ES

ET - Endpoint timeout caused by matrix interference.  
J - Estimated value. Result between method detection limit and limit of quantification.  
M - The MS and or MSD were outside control limits.  
pH - The pH was outside range and the sample was adjusted.

Sample	WDNR NR 140 Standards	MW-12																	MW-13																
		Parameter	Date	PAL	ES	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/23/16	05/24/17	07/18/18	03/13/20	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/22/16	05/25/17
cis-1,2-Dichloroethene	7.0	70	2.0	2.1	2.6	1.4 J	1.3 J	2.2	1.3 J	2.9	1.7	NS	2.5	1.4	1.9	<0.41	<0.41	0.99	<b>34.8</b>	<b>26</b>	<b>25</b>	<b>24</b>	<b>17</b>	<b>16</b>	<b>40</b>	<b>23</b>	<b>9.7</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>20</b>	<b>27</b>	<b>23</b>	<b>19</b>	
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	NS	<0.25	<0.35	<0.35	<0.35	<0.35	<0.35	1.1	1.7	0.80 J	1.6 J	0.79 J	0.74 J	1.30 J	1.1	0.62	<0.25	0.95	0.86	1.1	0.93	1.2	0.83	
Tetrachloroethene	0.5	5.0	<b>48.7</b>	<b>54</b>	<b>34</b>	<b>31</b>	<b>51</b>	<b>19</b>	<b>49</b>	<b>23</b>	<b>29</b>	NS	<b>22</b>	<b>12</b>	<b>12</b>	<b>24</b>	<b>7.4</b>	<b>26</b>	<b>13.8</b>	<b>63</b>	<b>58</b>	<b>54</b>	<b>41</b>	<b>39</b>	<b>60</b>	<b>40</b>	<b>32</b>	<b>21</b>	<b>32</b>	<b>27</b>	<b>36</b>	<b>39</b>	<b>27</b>	<b>15</b>	
Trichloroethene	0.5	5.0	<b>4.3</b>	<b>4.6</b>	<b>2.8</b>	<b>3.5</b>	<b>4.6</b>	<b>2.3</b>	<b>3.8</b>	<b>2.5</b>	<b>1.9</b>	NS	<b>1.5</b>	<b>0.96</b>	<b>0.89</b>	<b>1.1</b>	<b>0.52</b>	<b>1.2</b>	<b>1.7</b>	<b>2.6</b>	<b>2.4</b>	<b>3.1</b>	<b>2.1</b>	<b>6.5</b>	<b>18</b>	<b>11</b>	<b>6.5</b>	<b>3.9</b>	<b>4.1</b>	<b>3.2</b>	<b>3.9</b>	<b>4.3</b>	<b>3.5</b>	<b>1.8</b>	
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NS	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	
Dissolved Oxygen (mg/l)	NE	NE	U	2.98	2.34	7.14	2.97	1.25	2.67	2.35	3.78	NS	3.61	4.52	2.53	5.37	2.59	2.21	U	0.09	1.23	0.45	0.31	0.39	0.52	1.04	0.36	0.37	1.07	0.95	0.09	1.18	1.09	2.61	
Oxidation-Reduction Potential	NE	NE	U	-70.4	175	144.7	126.6	-16.0	56.36	22.9	79.6	NS	86.3	223.2	189.3	194.9	111.6	84.8	U	-117	56.9	53.6	47.2	-13.2	21.1	-18.1	57.0	36.8	22.8	51.3	-53.9	76.6	7.3	30.1	

Sample	WDNR NR 140 Standards	MW-14					MW-15					MW-16					MW-17		MW-18		MW-19							
		Parameter	Date	PAL	ES	06/01/16	09/20/16	05/23/17	07/19/18	03/13/20	06/01/16	09/20/16	05/23/17	07/20/18	03/13/20	06/02/16	09/22/16	05/23/17	07/18/18	03/13/20	05/22/17	09/29/17	05/22/17	09/29/17	05/23/17	09/29/17	07/18/18	09/21/18
cis-1,2-Dichloroethene	7.0	70	<0.41	<0.41	<0.41	<0.41	<0.41	4.1	<b>13</b>	<b>15</b>	<b>29</b>	<b>8.2</b>	1.2	1.0	0.93	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<b>12</b>	<b>15</b>	<b>16</b>	<b>15</b>	<b>12</b>		
trans-1,2-Dichloroethene	20	100	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	
Tetrachloroethene	0.5	5.0	<b>0.7</b>	<b>2.4</b>	<b>2.0</b>	<b>2.3</b>	<b>4.2</b>	<b>57</b>	<b>130</b>	<b>130</b>	<b>190</b>	<b>91</b>	<b>49</b>	<b>54</b>	<b>53</b>	<b>46</b>	<b>48</b>	<0.37	<0.37	<0.37	<0.37	<b>48</b>	<b>55</b>	<b>82</b>	<b>80</b>	<b>88</b>		
Trichloroethene	0.5	5.0	<0.16	<0.16	<0.16	<0.16	0.23	<b>0.99</b>	<b>2.8</b>	<b>3.4</b>	<b>7.0</b>	<b>3.4</b>	<b>0.8</b>	<b>0.92</b>	<b>0.68</b>	<b>0.55</b>	<b>0.68</b>	<0.16	<0.16	<0.16	<0.16	<b>2.0</b>	<b>2.6</b>	<b>5.2</b>	<b>4.9</b>	<b>3.8</b>		
Vinyl Chloride	0.02	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dissolved Oxygen (mg/l)	NE	NE	5.75	5.26	5.48	4.41	3.51	4.70	4.56	4.54	4.28	2.95	5.41	7.06	6.71	6.85	3.02	2.01	2.62	2.09	4.10	7.75	6.52	6.82	6.94	3.54		
Oxidation-Reduction Potential	NE	NE	-29.1	0.3	106.8	89.1	137.7	-3.7	22.5	132.3	81.3	151.4	-39.2	102.1	177.3	46	159	13.1	263.4	23.8	219.4	186.6	196.5	50	98.8	146.3		

Sample	WDNR NR 140 Standards	MW-20					MW-21			MW-22	MW-23	MW-24				
		Parameter	Date	PAL	ES	07/18/18	09/21/18	12/19/18	03/19/19	03/13/20	12/19/18	03/19/19	03/12/20	03/12/20	06/10/20	03/12/20
cis-1,2-Dichloroethene	7.0	70	<b>7.8</b>	6.3	3.7	4.5	3.4	0.69	<0.41	<0.41	1.9	2.3	<0.41	<0.27	<0.41	
trans-1,2-Dichloroethene	20	100	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.46	<0.35	<0.46	<0.35	
Tetrachloroethene	0.5	5.0	<b>39</b>	<b>38</b>	<b>37</b>	<b>36</b>	<b>38</b>	<b>0.72</b>	<0.37	<0.37	<b>7.3</b>	<b>7.4</b>	<0.37	<0.33	<0.37	
Trichloroethene	0.5	5.0	<b>1.9</b>	<b>2.0</b>	<b>1.8</b>	<b>1.8</b>	<b>1.3</b>	<b>65</b>	<b>10</b>	<b>0.61</b>	0.31	0.49J	<0.16	<0.26	<0.16	
Vinyl Chloride	0.02	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.17	<0.20	<0.17	<0.20	
Dissolved Oxygen (mg/l)	NE	NE	7.8	7.75	6.71	6.53	3.99	0.92	6.94	1.85	2.17	5.31	1.5	6.1	1.31	
Oxidation-Reduction Potential	NE	NE	9.82	106.2	78.9	109.8	104	-197.8	120.1	-60.4	64.8	74.6	-518.8	63	-22.2	

Notes: All values are in µg/l unless otherwise noted.  
 PAL - Preventative Action Limit  
 ES - Enforcement Standard  
 NE - Standard Not Established

NS - Not Sampled  
 NM - Not Measured  
 U - Pre Injection Data (unknown)

**BOLD** - Result exceeds the PAL  
**BOLD** - Result exceeds the ES

ET - Endpoint timeout caused by matrix interference.  
 J - Estimated value. Result between method detection limit and limit of quantification.  
 M - The MS and or MSD were outside control limits.  
 pH - The pH was outside range and the sample was adjusted.

**ATTACHMENT 1**  
**MW-24 BORING LOG, WELL CONSTRUCTION  
SUMMARY AND WELL DEVELOPMENT FORM**



Route To: Watershed / Wastewater  Waste Management   
Remediation / Redevelopment  Other

Facility/Project Name <b>former Bask Dry Cleaners</b>		License/Permit/Monitoring Number		Boring Number <b>MW-24</b>	
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Todd Last Name: Schmalhst Firm: Cascade Drilling, L.P.		Date Drilling Started <u>1</u> <u>1</u> <u>1</u> <u>8</u> <u>2</u> <u>0</u> <u>2</u> <u>0</u> m m/ d d/ y y y y	Date Drilling Completed <u>1</u> <u>1</u> <u>1</u> <u>9</u> <u>2</u> <u>0</u> <u>2</u> <u>0</u> m m/ d d/ y y y y	Drilling Method <b>Sonic</b>	
WI Unique Well No.	DNR Well ID No.	Well Name <b>MW-24</b>	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <u>6</u> inches
Local Grid Origin (estimated: ) or Boring Location State Plane _____ N, _____ E <u>NE</u> 1/4 of <u>NE</u> 1/4 of Section <u>36</u> , T <u>7</u> N, R <u>19</u> E			Local Grid Location _____ Feet _____ N _____ Feet _____ S _____ Feet _____ E _____ Feet _____ W		
Facility ID <b>268188800</b>	County <b>Waukesha</b>	County Code <b>68</b>	Civil Town / City / or Village <b>Waukesha</b>		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD / Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
	0		2	Blind drill to 5 ft.											
	48		6	Brown SILTY CLAY with Gravel, moist				0.1							
	60		10	Brown CLAY, trace gravel, very moist some rust coloring				0.2							
	60		14	Tan/Gray SILTY SAND, some gravel, slightly moist				0.1							
	60		16					0.3							
	60		20	- increase CLAY				0							
			22												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  <i>Erin Bulson</i>	Firm <b>KPRG and Associates, Inc.</b>
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This form is authorized by Chapters 281, 283, 289, 291, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and consuet involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.



Facility/Project Name <b>WAUKESHA WI</b>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>MW-24</b>
Facility License, Permit or Monitoring No. <b>Former Bask Dry Cleaners</b>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. <b>43° 02' 05.39"</b> Long. <b>88° 11' 08.73"</b> or	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID <b>268188800</b>	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <b>11/19/2020</b> m m d d y y y y
Type of Well Well Code <b>11, MW</b>	Section Location of Waste/Source <b>BLW 1/4 of SW 1/4 of Sec. 20, T. 7 N, R. 20</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <b>Todd Schmalzer Cascade Drilling</b>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number _____	

A. Protective pipe, top elevation ----- <b>0</b> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
B. Well casing, top elevation ----- <b>0</b> ft. MSL	2. Protective cover pipe: a. Inside diameter: <b>8</b> in. b. Length: <b>1</b> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>												
C. Land surface elevation ----- ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____												
D. Surface seal, bottom ----- ft. MSL or ----- ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>												
<table border="1"> <tr> <td colspan="2">12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></td> </tr> <tr> <td>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> <td></td> </tr> <tr> <td>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <b>Sonic</b> Other <input type="checkbox"/></td> <td></td> </tr> <tr> <td>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99</td> <td></td> </tr> <tr> <td>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <del>_____</del></td> <td></td> </tr> <tr> <td>17. Source of water (attach analysis, if required): <b>City</b></td> <td></td> </tr> </table>		12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <b>Sonic</b> Other <input type="checkbox"/>		15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99		16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <del>_____</del>		17. Source of water (attach analysis, if required): <b>City</b>	
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16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <del>_____</del>													
17. Source of water (attach analysis, if required): <b>City</b>													
E. Bentonite seal, top ----- ft. MSL or <b>1.0</b> ft.	4. Material between well casing and protective pipe: <b>Sand</b> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>												
F. Fine sand, top ----- ft. MSL or <b>47</b> ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. <b>7.5</b> Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08												
G. Filter pack, top ----- ft. MSL or <b>48</b> ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>												
H. Screen joint, top ----- ft. MSL or <b>50</b> ft.	7. Fine sand material: Manufacturer, product name & mesh size a. <b>#7 Red Awt</b> b. Volume added <b>1.5</b> ft <sup>3</sup>												
I. Well bottom ----- ft. MSL or <b>60</b> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <b>#40 Red Awt</b> b. Volume added <b>2.5</b> ft <sup>3</sup>												
J. Filter pack, bottom ----- ft. MSL or <b>60</b> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>												
K. Borehole, bottom ----- ft. MSL or <b>60</b> ft.	10. Screen material: <b>PVC</b> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>												
L. Borehole, diameter ----- <b>6</b> in.	b. Manufacturer <b>Home products</b> c. Slot size: <b>0.010</b> in. d. Slotted length: <b>10</b> ft.												
M. O.D. well casing ----- <b>2.1375</b> in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>												
N. I.D. well casing ----- <b>2</b> in.													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Todd Schmalzer* Firm *Cascade Drilling*

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <u>Waukesha WI</u> Former Bask Dry Cleaners	County Name <u>Waukesha</u>	Well Name <u>MW-241</u>
Facility License, Permit or Monitoring Number	County Code <u>68</u>	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No
2. Well development method
- surged with bailer and bailed  41
  - surged with bailer and pumped  61
  - surged with block and bailed  42
  - surged with block and pumped  62
  - surged with block, bailed and pumped  70
  - compressed air  20
  - bailed only  10
  - pumped only  51
  - pumped slowly  50
  - Other
3. Time spent developing well 60 min.
4. Depth of well (from top of well casing) 60.4 ft.
5. Inside diameter of well 2" in.
6. Volume of water in filter pack and well casing 0 gal.
7. Volume of water removed from well 55 gal.
8. Volume of water added (if any) 0 gal.
9. Source of water added NA
10. Analysis performed on water added?  Yes  No  
(if yes, attach results)

- |  | Before Development   | After Development  |
|--|--|--|
| 11. Depth to Water (from top of well casing) | a. <u>32.8</u> ft.   | <u>32.6</u> ft.  |
| Date   | b. <u>11/19/2020</u><br>m m d d y y y y  | <u>11/19/2020</u><br>m m d d y y y y   |
| Time   | c. <u>1:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.                        | <u>2:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.               |
| 12. Sediment in well bottom                  | <u>0</u> inches  | <u>0</u> inches  |
| 13. Water clarity                            | Clear <input type="checkbox"/> 10<br>Turbid <input checked="" type="checkbox"/> 15<br>(Describe) <u>Grey</u> | Clear <input checked="" type="checkbox"/> 20<br>Turbid <input type="checkbox"/> 25<br>(Describe) |
- Fill in if drilling fluids were used and well is at solid waste facility:
14. Total suspended solids \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l
15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: TODD Last Name: Schmalz

Firm: Cascade

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Facility/Firm: Westbrook Shopping Center

Street: East Moreland Blvd

City/State/Zip: Waukesha, WI 53186

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: Todd Schmalz

Firm: Cascade

NOTE: See instructions for more information including a list of county codes and well type codes.

**ATTACHMENT 2**  
**ANALYTICAL DATA PACKAGE**

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-191947-1

Client Project/Site: Former Bask Dry Cleaners - 10009

**For:**

KPRG and Associates, Inc.  
14665 West Lisbon Road,  
Suite 1A  
Brookfield, Wisconsin 53005

Attn: Patrick Allenstein



*Authorized for release by:  
12/14/2020 3:32:22 PM*

Sandie Fredrick, Project Manager II  
(920)261-1660  
[sandra.fredrick@eurofinset.com](mailto:sandra.fredrick@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

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## Job ID: 500-191947-1

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Laboratory: Eurofins TestAmerica, Chicago

### Narrative

Job Narrative  
500-191947-1

### Comments

No additional comments.

### Receipt

The sample was received on 12/4/2020 10:05 AM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: KPRG and Associates, Inc.  
Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

**Client Sample ID: MW-24**

**Lab Sample ID: 500-191947-1**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-191947-1	MW-24	Ground Water	12/02/20 14:20	12/04/20 10:05	

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# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

**Client Sample ID: MW-24**

**Lab Sample ID: 500-191947-1**

**Date Collected: 12/02/20 14:20**

**Matrix: Ground Water**

**Date Received: 12/04/20 10:05**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/12/20 02:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/12/20 02:49	1
Chloroform	<0.37		2.0	0.37	ug/L			12/12/20 02:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/12/20 02:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/12/20 02:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/12/20 02:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/12/20 02:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/12/20 02:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/12/20 02:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/12/20 02:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/12/20 02:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/12/20 02:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/12/20 02:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/12/20 02:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/12/20 02:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	94		72 - 124					12/12/20 02:49	1
Dibromofluoromethane	85		75 - 120					12/12/20 02:49	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126					12/12/20 02:49	1
Toluene-d8 (Surr)	95		75 - 120					12/12/20 02:49	1

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

## GC/MS VOA

### Analysis Batch: 576511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-191947-1	MW-24	Total/NA	Ground Water	8260B	
MB 500-576511/6	Method Blank	Total/NA	Water	8260B	
LCS 500-576511/4	Lab Control Sample	Total/NA	Water	8260B	

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# Surrogate Summary

Client: KPRG and Associates, Inc.  
Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-191947-1	MW-24	94	85	98	95

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
LCS 500-576511/4	Lab Control Sample	94	90	97	95
MB 500-576511/6	Method Blank	94	85	98	94

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-576511/6**  
**Matrix: Water**  
**Analysis Batch: 576511**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/12/20 00:06	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/12/20 00:06	1
Chloroform	<0.37		2.0	0.37	ug/L			12/12/20 00:06	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/12/20 00:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/12/20 00:06	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/12/20 00:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/12/20 00:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/12/20 00:06	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/12/20 00:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/12/20 00:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/12/20 00:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/12/20 00:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/12/20 00:06	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/12/20 00:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/12/20 00:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124		12/12/20 00:06	1
Dibromofluoromethane	85		75 - 120		12/12/20 00:06	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		12/12/20 00:06	1
Toluene-d8 (Surr)	94		75 - 120		12/12/20 00:06	1

**Lab Sample ID: LCS 500-576511/4**  
**Matrix: Water**  
**Analysis Batch: 576511**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	42.6		ug/L		85	59 - 133
Chloroethane	50.0	60.5		ug/L		121	48 - 136
Chloroform	50.0	43.9		ug/L		88	70 - 120
Chloromethane	50.0	43.7		ug/L		87	56 - 152
cis-1,2-Dichloroethene	50.0	44.2		ug/L		88	70 - 125
1,1-Dichloroethane	50.0	43.8		ug/L		88	70 - 125
1,2-Dichloroethane	50.0	47.6		ug/L		95	68 - 127
1,1-Dichloroethene	50.0	44.9		ug/L		90	67 - 122
Methylene Chloride	50.0	41.1		ug/L		82	69 - 125
Tetrachloroethene	50.0	46.0		ug/L		92	70 - 128
trans-1,2-Dichloroethene	50.0	46.2		ug/L		92	70 - 125
1,1,1-Trichloroethane	50.0	46.4		ug/L		93	70 - 125
1,1,2-Trichloroethane	50.0	39.6		ug/L		79	71 - 130
Trichloroethene	50.0	46.0		ug/L		92	70 - 125
Vinyl chloride	50.0	49.0		ug/L		98	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	97		75 - 126
Toluene-d8 (Surr)	95		75 - 120

Eurofins TestAmerica, Chicago



# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

**Client Sample ID: MW-24**

**Date Collected: 12/02/20 14:20**

**Date Received: 12/04/20 10:05**

**Lab Sample ID: 500-191947-1**

**Matrix: Ground Water**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	8260B		1	576511	12/12/20 02:49	JDD	TAL CHI

**Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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# Accreditation/Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Former Bask Dry Cleaners - 10009

Job ID: 500-191947-1

## Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

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# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60414  
Phone: 708.534.5200 Fax: 708.534.5201



500-191947 COC

Report To (optional)  
Contact: PATRICK ALLENSTEIN  
Company: KPRG AND ASSOCIATES  
Address: 14665 W. LISBON RD, STE 1A  
Address: BROOKFIELD, WI 53005  
Phone: 262-781-0475  
Fax: \_\_\_\_\_  
E-Mail: PATRICKA@KPRGINC.COM

Bill To (optional)  
Contact: SAME  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-191947

Chain of Custody Number: \_\_\_\_\_

Page 1 of 1

Temperature °C of Cooler: 0.6

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Date		Time		# of Containers				
Project Location/State		Lab PM		Date		Time		# of Containers				
Sampler		Lab PM		Date		Time		# of Containers				
KPRG AND ASSOCIATES, INC		10009		1						Comments		
FARM BASK DRY CLEANERS												
WAUKESHA, WI												
E. BULSON												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
1		MW-24	12/2/20	1420	3	GL	X					

Turnaround Time Required (Business Days)  
 1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>KPRG</u>	Date: <u>12-3-20</u>	Time: <u>15:05</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>12-3-20</u>	Time: <u>15:05</u>	Lab Courier: _____
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>12-3-20</u>	Time: <u>1700</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>12/4/20</u>	Time: <u>1005</u>	Shipped: <u>FedEx</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments: \_\_\_\_\_  
 Lab Comments: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-191947-1

**Login Number: 191947**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

