

**GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM:** Completion of this form is required under s. NR 724.13(3), Wis. Adm. Code. A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation of s. NR 724.13(3), Wis. Adm. Code, and is subject to the penalties in s. 292.99, Wis. Stats. This form must be submitted every six months for soil or groundwater remediation projects that report operation and maintenance progress in accordance with s. NR 724.13(3), Wis. Adm. Code.

Note: Long-term monitoring results submitted in accordance with s. NR 724.17(3), Wis. Adm. Code are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with s. NR 724.17(3), Wis. Adm. Code.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent State lead Superfund response.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and obtain prior written approval for any omissions or changes.

Submittal of this form is not a substitute for reporting required by Department programs such as Waste Water or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.). Unless otherwise noted, all citations refer to Wisconsin Administrative Code.

Note: There is a separate semi-annual report required under s. NR 700.11(1), Wis. Adm. Code. Reporting under that provision is through an internet-based form:

<http://dnr.wi.gov/topic/Brownfields/documents/reg/NR700progreport.pdf>

### Section GI - General Site Information

#### A. General Information

1. Site name

Martino's Master Dry Cleaners

2. Reporting period from:	07/01/2018	To:	12/31/2018	Days in period:	184
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3. Regulatory agency (enter DNR, DATCP and/or other)	4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific)				
DNR	02-30-552188				

#### 5. Site location

Region	County	Address					
Southeast Region	Kenosha	7513 41st Ave					

Municipality name  City  Town  Village

Township Range  E Section  ¼ NE  ¼ NW

Kenosha

01 N 22 OW 11

#### 6. Responsible party

Name

Martino's Master Dry Cleaners

#### 7. Consultant

Select if the following information has changed since the last submittal

Mailing address

7513 41st Ave, Kenosha, WI 53142

Company name

EnviroForensics, LLC

Phone number

(262) 694-7858

Mailing address

N16 W23390 Stone Ridge Drive Suite G  
Waukesha WI 53188

Phone number

(262) 290-4001

#### 8. Contaminants

Tetrachloroethene

#### 9. Soil types (USCS or USDA)

SP, CL

#### 10. Hydraulic conductivity(cm/sec):

0.010

#### 11. Average linear velocity of groundwater (ft/yr)

186

#### 12. If soil is treated ex situ, is the treatment location off site? Yes No

If yes, give location: Region	County
Municipality name <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village	Township Range <input type="radio"/> E Section <input type="radio"/> ¼ NE <input type="radio"/> ¼ NW
	N OW

Site name: Martino's Master Dry Cleaners  
Reporting period from: 07/01/2018 To: 12/31/2018  
Days in period: 184

## Remediation Site Operation, Maintenance, Monitoring & Optimization Report

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### B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- Groundwater extraction (submit a completed Section GW-1).
- Free product recovery (submit a completed Section GW-1).
- In situ air sparging (submit a completed Section GW-2).
- Groundwater natural attenuation (submit a completed Section GW-3).
- Other groundwater remediation method (submit a completed Section GW-4).
- Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- Soil natural attenuation (submit a completed Section IS-2).
- Other in situ soil remediation method (submit a completed Section IS-3).
- Biopiles (submit a completed Section ES-1).
- Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- Other ex situ remediation method (submit a completed Section ES-3).
- Site is a landfill (submit a completed Section LF-1).

### C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attenuation), complete this subsection.

1. Is the system operating at design rates and specifications?  Yes  No

If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness  Yes  No

If yes, explain:

3. Is natural attenuation an effective low cost option at this time?  Yes  No

4. Is closure sampling warranted at this time?  Yes  No

5. Are there any modifications that can be made to the remediation to improve cost effectiveness?  Yes  No

If yes, explain:

### D. Economic and Cost Data to Date

1. Total investigation cost: \$436,100.00

2. Implementation costs (design, capital and installation costs, excluding investigation costs): \$171,800.00

3. Total costs during the previous reporting period: \$34,700.00

4. Total costs during this reporting period: \$21,400.00

5. Total anticipated costs for the next reporting period: \$20,000.00

6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above?  Yes  No

If yes, explain:

7. If closure is anticipated within 12 months, estimated costs for project closeout: \_\_\_\_\_

Site name: Martino's Master Dry Cleaners  
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**E. Name(s), Signature(s) and Date of Person(s) Submitting Form**

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.

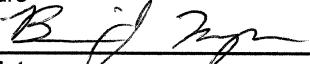
**Registered Professional Engineers:**

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Andrew Horwath	Director of Engineering and Remediation Services
Signature 	Date 1/22/2019

**Hydrogeologists:**

I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Brian Kappen	Project Manager
Signature 	Date 1/22/2019

**Scientists:**

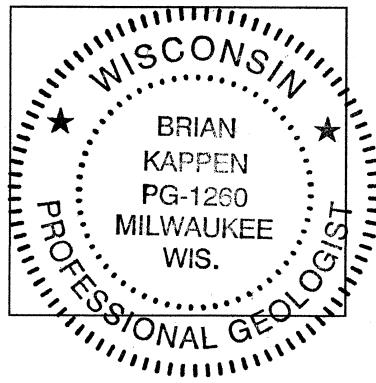
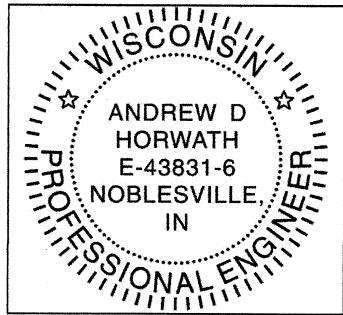
I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	Date

**Other Persons:**

Print name	Title
Signature	Date

**Professional Seal(s), if applicable:**



Site name: Martino's Master Dry Cleaners

Reporting period from: 07/01/2018 To: 12/31/2018

Days in period: 184

## Remediation Site Operation, Maintenance, Monitoring & Optimization Report

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### **Section IS-1, Soil Venting (Including Soil Vapor Extraction, Building Venting and Bioventing)**

#### **A. Soil Venting Operation**

**Note:** This form is not required for building vapor mitigation systems that are installed proactively to protect building occupants/users and are not considered part of ongoing active soil remediation.

1. Number of air extraction wells available and number of wells actually in use during the period: 2
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):  
53
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:  
29%. The system was periodically shut down intentionally to manage water collection and discharge. The system also shut down periodically due to power interruption.
4. Average depth to groundwater: 11.19 gpm

#### **B. Building Basement/Subslab Venting System Operation**

1. Number of venting points available and number of points actually in use during the period:
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
  
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

#### **C. Effectiveness Evaluation**

1. Average contaminant removal rate for the entire system: 0.06 pounds per day
2. Average contaminant removal rate per well or venting point: 0.03 pounds per day
3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:
  - a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in the past year:
    - i. Oxygen levels in extracted air: \_\_\_\_\_ percent
    - ii. Methane levels in extracted air (ppmv) If over 10 ppmv, explain:
  - iii. If methane is not present above 10 ppmv and if oxygen is greater than 20 percent in extracted air, you should either:
    - Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
    - Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.
- b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.
- c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

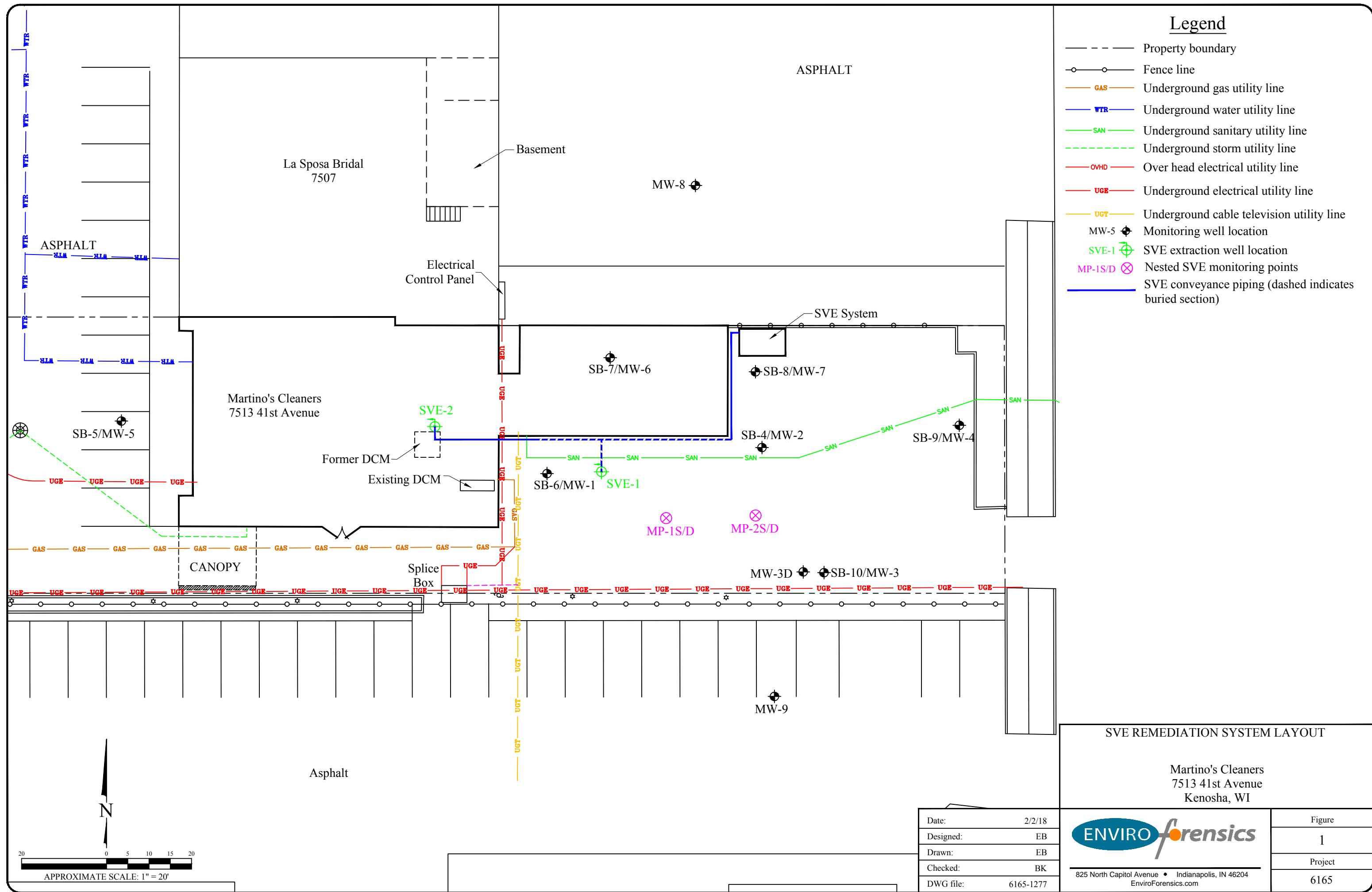
#### **D. Additional Attachments**

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells.
- If water table monitoring wells are present at the site, a map of well locations.
- Time versus vapor phase contaminant concentration graph.
- Time versus cumulative contaminant removal graph.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations.
- Table of soil contaminant chemistry data.
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted.
- System operational data table.

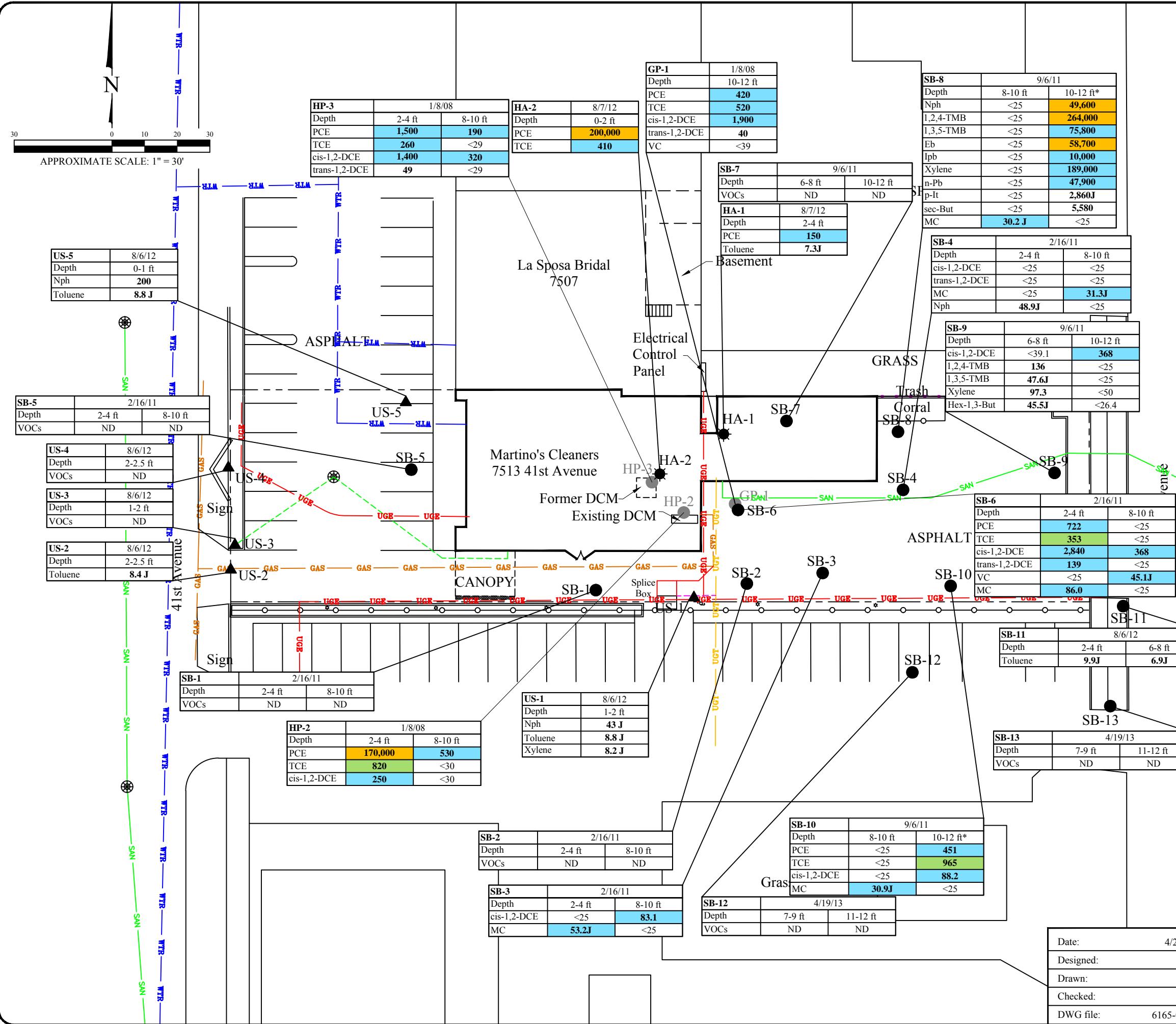
## Legend

- Property boundary
- Fence line
- GAS** Underground gas utility line
- WTR** Underground water utility line
- SAN** Underground sanitary utility line
- Underground storm utility line
- Over head electrical utility line
- Underground electrical utility line
- Underground cable television utility line
- MW-5** Monitoring well location
- SVE-1** SVE extraction well location
- MP-1S/D** Nested SVE monitoring points
- SVE conveyance piping** (dashed indicates buried section)



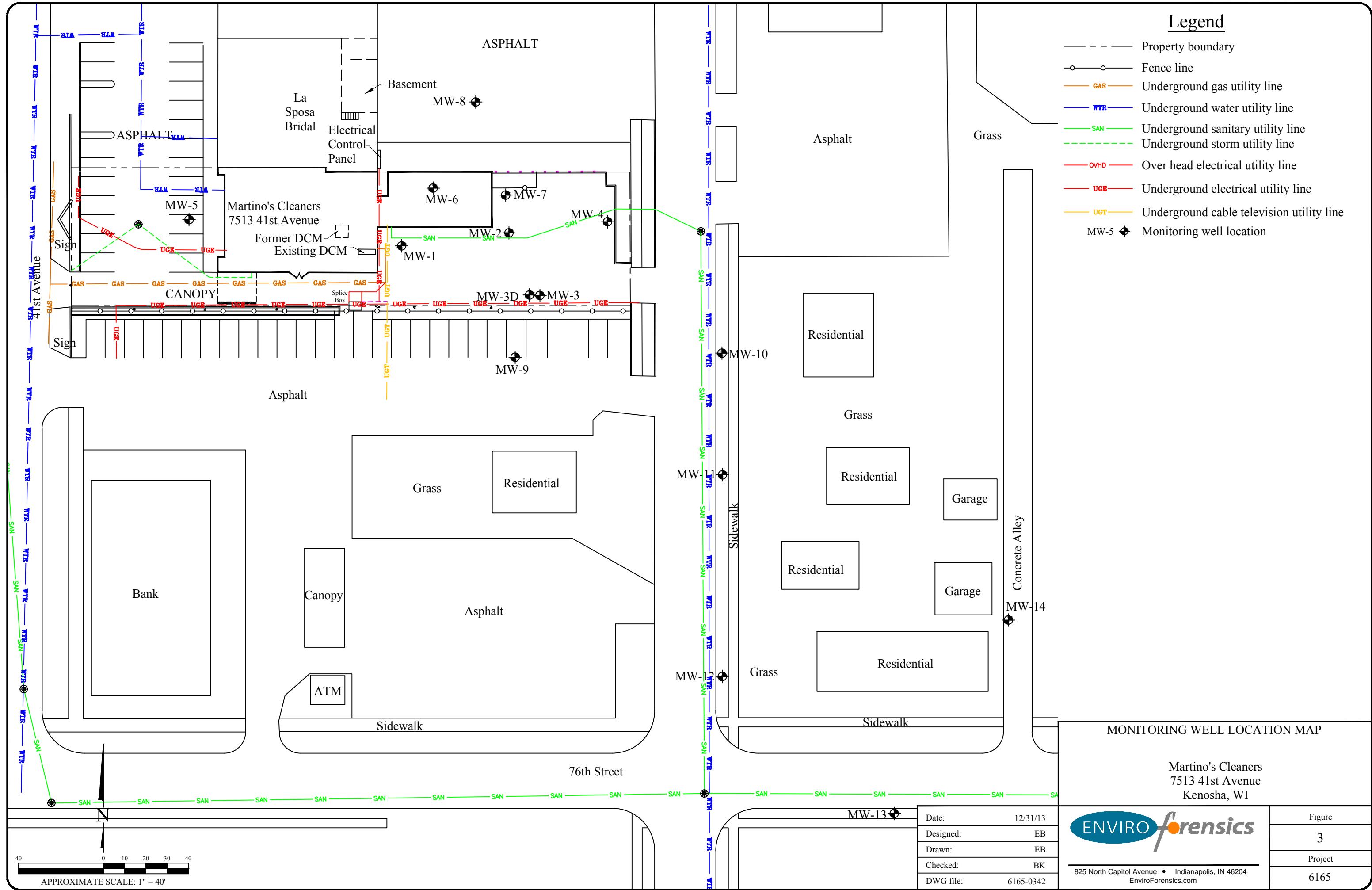
# Legend

	Property boundary
	Fence line
	Underground gas utility line
	Underground water utility line
	Underground sanitary utility line
	Underground storm utility line
	Over head electrical utility line
	Underground electrical utility line
	Underground cable television utility line
	SB-1 Soil boring location
	HA-2 Hand auger boring location
	HP-2 Soil boring location (done by others - 2008)
	US-2/SG-2 Utility corridor/soil gas sample location



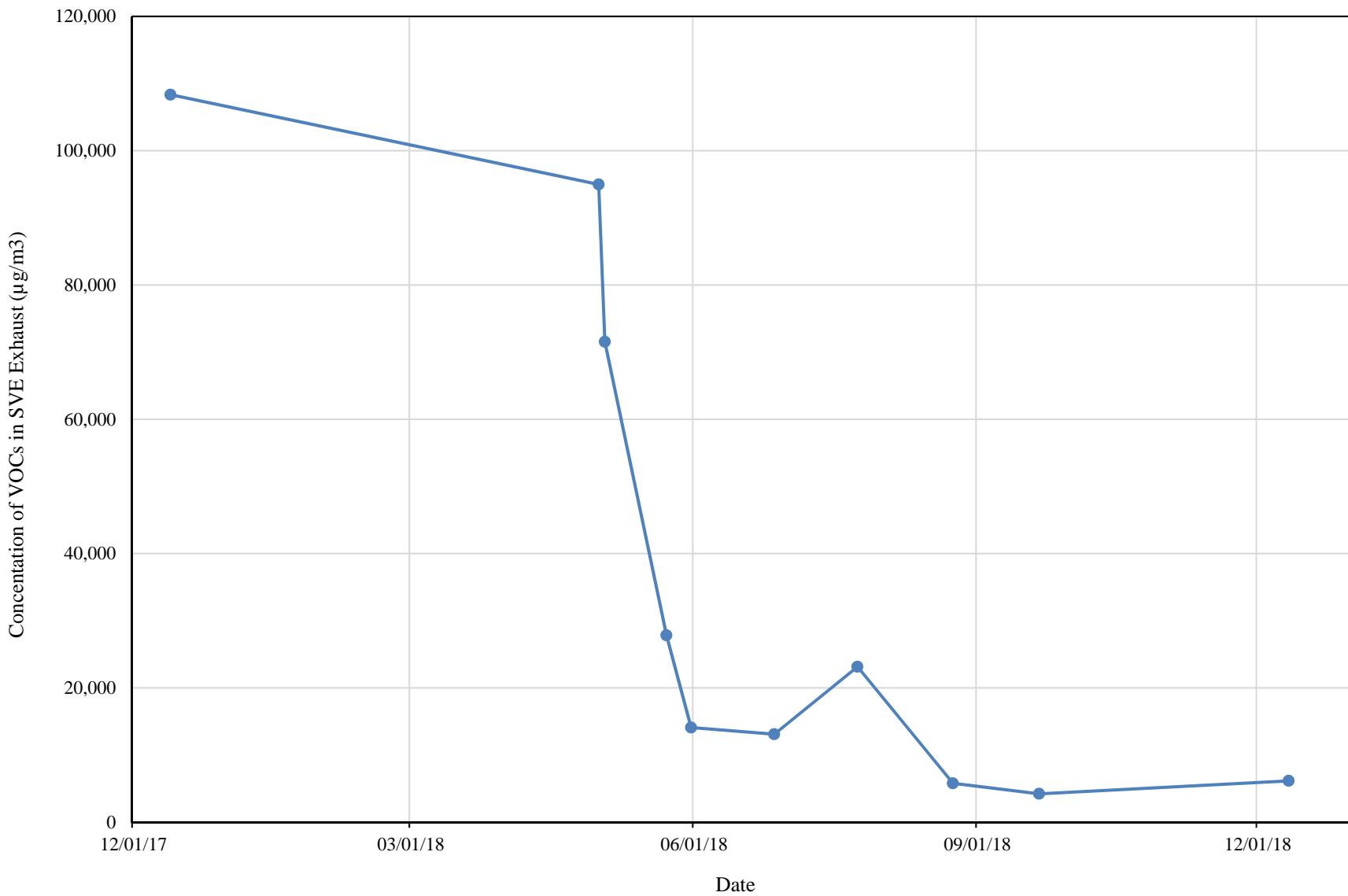
## Legend

- Property boundary
- Fence line
- GAS** Underground gas utility line
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- SAN** Underground sanitary utility line
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- Over head electrical utility line
- Underground electrical utility line
- Underground cable television utility line
- MW-5** Monitoring well location



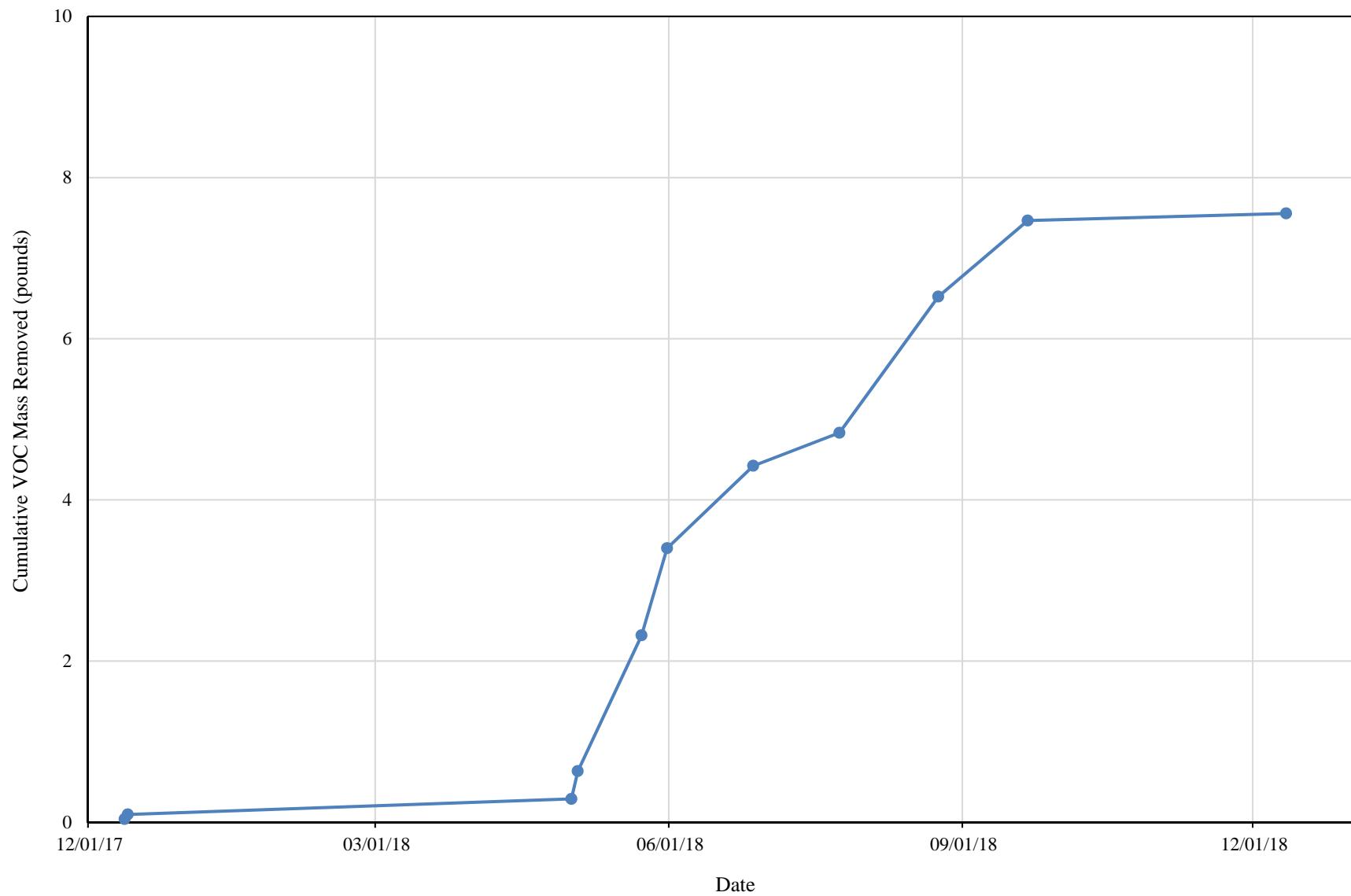
## Vapor Phase VOC Concentration Trend

Martino's Master Dry Cleaners- 7513 41st Avenue, Kenosha, Wisconsin



## Cumulative VOC Mass Removed

Martino's Master Dry Cleaners- 7513 41st Avenue, Kenosha, Wisconsin



**TABLE 1**  
**GROUNDWATER ELEVATION SUMMARY**  
 Martino's Master Drycleaners  
 7513 41st Avenue, Kenosha, Wisconsin

Well ID	Screened Interval (feet AMSL)	TOC Elevation (feet AMSL)	Date	DTW (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-1	623.9 - 633.9	640.70	9/7/2011	11.28	629.42
			8/8/2012	11.29	629.41
			12/16/2013	11.44	629.26
			3/12/2014	11.33	629.37
			5/28/2014	10.78	629.92
			9/23/2014	11.01	629.69
			11/12/2014	11.21	629.49
			3/18/2015	10.95	629.75
			6/22/2015	10.79	629.91
			9/16/2015	11.19	629.51
			11/30/2015	10.53	630.17
			3/9/2016	10.94	629.76
			6/2/2016	10.80	629.90
			9/27/2016	10.96	629.74
			7/25/2018	10.83	629.87
			<i>Min</i>	<b>10.53</b>	<b>629.26</b>
			<i>Max</i>	<b>11.44</b>	<b>630.17</b>
			<i>Avg</i>	<b>11.02</b>	<b>629.68</b>
MW-2	623.3 - 633.3	640.06	9/7/2011	10.81	629.25
			8/8/2012	10.82	629.24
			12/16/2013	10.99	629.07
			3/12/2014	10.86	629.20
			5/28/2014	10.37	629.69
			9/23/2014	10.51	629.55
			11/12/2014	10.72	629.34
			3/18/2015	10.50	629.56
			6/22/2015	10.30	629.76
			9/16/2015	10.71	629.35
			11/30/2015	10.09	629.97
			3/9/2016	10.51	629.55
			6/2/2016	10.33	629.73
			9/27/2016	10.53	629.53
			7/25/2018	10.34	629.72
			<i>Min</i>	<b>10.09</b>	<b>629.07</b>
			<i>Max</i>	<b>10.99</b>	<b>629.97</b>
			<i>Avg</i>	<b>10.56</b>	<b>629.50</b>
MW-3	624.4 - 634.4	640.21	9/7/2011	11.02	629.19
			8/8/2012	11.04	629.17
			12/16/2013	11.24	628.97
			3/12/2014	11.21	629.00
			5/28/2014	10.71	629.50
			9/23/2014	10.82	629.39
			11/12/2014	11.02	629.19
			3/18/2015	10.87	629.34
			6/22/2015	10.66	629.55
			9/16/2015	11.04	629.17
			11/30/2015	10.45	629.76
			3/9/2016	10.88	629.33
			6/2/2016	10.68	629.53
			9/27/2016	10.90	629.31
			7/25/2018	10.70	629.51
			<i>Min</i>	<b>10.45</b>	<b>628.97</b>
			<i>Max</i>	<b>11.24</b>	<b>629.76</b>
			<i>Avg</i>	<b>10.88</b>	<b>629.33</b>
MW-3D	606.1 - 611.1	640.37	12/16/2013	11.08	629.29
			3/12/2014	11.40	628.97
			5/28/2014	10.94	629.43
			9/23/2014	11.02	629.35
			11/12/2014	11.16	629.21
			3/18/2015	11.31	629.06
			6/22/2015	10.84	629.53
			9/16/2015	11.23	629.14
			11/30/2015	10.76	629.61
			3/9/2016	11.18	629.19
			6/2/2016	10.73	629.64
			9/27/2016	11.00	629.37
			7/25/2018	10.82	629.55
			<i>Min</i>	<b>10.73</b>	<b>628.97</b>
			<i>Max</i>	<b>11.40</b>	<b>629.64</b>
			<i>Avg</i>	<b>11.04</b>	<b>629.33</b>

**TABLE 1**  
**GROUNDWATER ELEVATION SUMMARY**  
 Martino's Master Drycleaners  
 7513 41st Avenue, Kenosha, Wisconsin

Well ID	Screened Interval (feet AMSL)	TOC Elevation (feet AMSL)	Date	DTW (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-4	622.7 - 632.7	640.07	9/7/2011	10.98	629.09
			8/8/2012	10.91	629.16
			12/16/2013	11.03	629.04
			3/12/2014	10.93	629.14
			5/28/2014	10.46	629.61
			9/23/2014	10.57	629.50
			11/12/2014	10.79	629.28
			3/18/2015	10.58	629.49
			6/22/2015	10.41	629.66
			9/16/2015	10.78	629.29
			11/30/2015	10.18	629.89
			3/9/2016	10.63	629.44
			6/2/2016	10.24	629.83
			9/27/2016	10.63	629.44
			7/25/2018	10.42	629.65
			<i>Min</i>	<b>10.18</b>	<b>629.04</b>
			<i>Max</i>	<b>11.03</b>	<b>629.89</b>
			<i>Avg</i>	<b>10.64</b>	<b>629.43</b>
MW-5	623.8 - 633.8	640.33	9/7/2011	10.45	629.88
			8/8/2012	10.38	629.95
			12/16/2013	10.63	629.70
			3/12/2014	10.45	629.88
			5/28/2014	9.82	630.51
			9/23/2014	10.12	630.21
			11/12/2014	10.40	629.93
			3/18/2015	10.06	630.27
			6/22/2015	9.90	630.43
			9/16/2015	10.35	629.98
			11/30/2015	9.56	630.77
			3/9/2016	10.02	630.31
			6/2/2016	9.95	630.38
			9/27/2016	10.16	630.17
			7/25/2018	10.06	630.27
			<i>Min</i>	<b>9.56</b>	<b>629.70</b>
			<i>Max</i>	<b>10.63</b>	<b>630.77</b>
			<i>Avg</i>	<b>10.15</b>	<b>630.18</b>
MW-6	NA	NA	9/7/2011	11.60	NA
			8/8/2012	11.60	NA
			12/16/2013	11.79	NA
			3/12/2014	11.61	NA
			5/28/2014	11.12	NA
			9/23/2014	11.32	NA
			11/12/2014	11.56	NA
			3/18/2015	11.24	NA
			6/22/2015	11.13	NA
			9/16/2015	11.52	NA
			11/30/2015	10.88	NA
			3/9/2016	11.35	NA
			6/2/2016	11.14	NA
			9/27/2016	11.33	NA
			7/25/2018	11.19	NA
			<i>Min</i>	<b>10.88</b>	<b>NA</b>
			<i>Max</i>	<b>11.79</b>	<b>NA</b>
			<i>Avg</i>	<b>11.36</b>	<b>NA</b>
MW-7	624.1 - 634.1	640.66	9/7/2011	11.40	629.26
			8/8/2012	10.78	629.88
			12/16/2013	11.54	629.12
			3/12/2014	11.41	629.25
			5/28/2014	10.94	629.72
			9/23/2014	10.97	629.69
			11/12/2014	11.30	629.36
			3/18/2015	11.04	629.62
			6/22/2015	10.91	629.75
			9/16/2015	11.28	629.38
			11/30/2016	10.65	630.01
			3/9/2016	11.05	629.61
			6/2/2016	10.93	629.73
			9/27/2016	11.11	629.55
			7/25/2018	10.92	629.74
			<i>Min</i>	<b>10.65</b>	<b>629.12</b>
			<i>Max</i>	<b>11.54</b>	<b>630.01</b>
			<i>Avg</i>	<b>11.08</b>	<b>629.58</b>

**TABLE 1**  
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 Martino's Master Drycleaners  
 7513 41st Avenue, Kenosha, Wisconsin

Well ID	Screened Interval (feet AMSL)	TOC Elevation (feet AMSL)	Date	DTW (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-8	621.3 - 631.3	638.99	12/16/2013	9.72	629.27
			3/12/2014	9.61	629.38
			5/28/2014	9.17	629.82
			9/23/2014	9.30	629.69
			11/12/2014	9.53	629.46
			3/18/2015	9.25	629.74
			6/22/2015	9.20	629.79
			9/16/2015	9.52	629.47
			11/30/2015	8.93	630.06
			3/9/2016	9.28	629.71
			6/2/2016	9.25	629.74
			9/27/2016	9.39	629.60
			7/25/2018	9.31	629.68
			<i>Min</i>	<b>8.93</b>	<b>629.27</b>
			<i>Max</i>	<b>9.72</b>	<b>630.06</b>
			<i>Avg</i>	<b>9.34</b>	<b>629.65</b>
MW-9	621.9 - 631.9	641.09	12/16/2013	12.16	628.93
			3/12/2014	12.11	628.98
			5/28/2014	11.59	629.50
			9/23/2014	11.73	629.36
			11/12/2014	11.90	629.19
			3/18/2015	11.81	629.28
			6/22/2015	11.59	629.50
			9/16/2015	11.92	629.17
			11/30/2015	11.38	629.71
			3/9/2016	NM	NM
			6/2/2016	11.54	629.55
			9/27/2016	11.79	629.30
			7/25/2018	NM	NM
			<i>Min</i>	<b>11.38</b>	<b>628.93</b>
			<i>Max</i>	<b>12.16</b>	<b>629.71</b>
			<i>Avg</i>	<b>11.77</b>	<b>629.32</b>
MW-10	620.0 - 630.0	640.26	9/23/2014	11.00	629.26
			11/12/2014	11.19	629.07
			3/18/2015	11.12	629.14
			6/22/2015	10.82	629.44
			9/16/2015	11.19	629.07
			11/30/2015	10.63	629.63
			3/9/2016	11.06	629.20
			6/2/2016	10.83	629.43
			9/27/2016	11.07	629.19
			7/25/2018	10.80	629.46
			<i>Min</i>	<b>10.63</b>	<b>629.07</b>
			<i>Max</i>	<b>11.19</b>	<b>629.63</b>
			<i>Avg</i>	<b>10.97</b>	<b>629.29</b>
MW-11	621.3 - 631.3	641.51	9/23/2014	12.37	629.14
			11/12/2014	12.54	628.97
			3/18/2015	12.52	628.99
			6/22/2015	12.20	629.31
			9/16/2015	12.50	629.01
			11/30/2015	12.04	629.47
			3/9/2016	12.46	629.05
			6/2/2016	12.18	629.33
			9/27/2016	12.41	629.10
			7/25/2018	12.18	629.33
			<i>Min</i>	<b>12.04</b>	<b>628.97</b>
			<i>Max</i>	<b>12.54</b>	<b>629.47</b>
			<i>Avg</i>	<b>12.34</b>	<b>629.17</b>
MW-12	623.1 - 633.1	643.18	9/23/2014	9.36	633.82
			11/12/2014	14.41	628.77
			3/18/2015	14.45	628.73
			6/22/2015	14.15	629.03
			9/16/2015	14.46	628.72
			11/30/2015	14.06	629.12
			3/9/2016	14.38	628.80
			6/2/2016	14.08	629.10
			9/27/2016	14.31	628.87
			7/25/2018	14.29	628.89
			<i>Min</i>	<b>14.06</b>	<b>628.72</b>
			<i>Max</i>	<b>14.46</b>	<b>629.12</b>
			<i>Avg</i>	<b>14.29</b>	<b>628.89</b>

**TABLE 1**  
**GROUNDWATER ELEVATION SUMMARY**  
 Martino's Master Drycleaners  
 7513 41st Avenue, Kenosha, Wisconsin

Well ID	Screened Interval (feet AMSL)	TOC Elevation (feet AMSL)	Date	DTW (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-13	621.5 - 631.5	642.03	9/23/2014	13.88	628.15
			11/12/2014	13.91	628.12
			3/18/2015	13.96	628.07
			6/22/2015	13.79	628.24
			9/16/2015	13.97	628.06
			11/30/2015	13.80	628.23
			3/9/2016	13.91	628.12
			6/2/2016	13.78	628.25
			9/27/2016	13.87	628.16
			7/25/2018	13.72	628.31
			<i>Min</i>	<b>13.72</b>	<b>628.06</b>
			<i>Max</i>	<b>13.97</b>	<b>628.31</b>
			<i>Avg</i>	<b>13.86</b>	<b>628.17</b>
MW-14	620.7 - 630.7	640.98	9/23/2014	12.10	628.88
			11/12/2014	12.25	628.73
			3/18/2015	12.24	628.74
			6/22/2015	11.90	629.08
			9/16/2015	12.24	628.74
			11/30/2015	11.79	629.19
			3/9/2016	12.18	628.80
			6/2/2016	11.93	629.05
			9/27/2016	12.11	628.87
			7/25/2018	11.83	629.15
			<i>Min</i>	<b>11.79</b>	<b>628.73</b>
			<i>Max</i>	<b>12.25</b>	<b>629.19</b>
			<i>Avg</i>	<b>12.06</b>	<b>628.92</b>

**Notes:**

All values are in feet  
 AMSL = above mean sea level  
 DTW = Depth to water  
 NA = Survey data not available  
 NM = Not measured  
 TOC = Top of Casing  
 Shaded values are anomalous and excluded from statistics

**TABLE 2**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**

Boring Identification	Sample Depth (feet)	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	Benzene	sec-Butylbenzene	n-Butylbenzene	Ethylbenzene	Hexachloro-1,3-butadiene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-propylbenzene	1,2,4-Trimethylbenzene	1,3,5 - Trimethylbenzene	Xylenes (total)	Toluene
Industrial RCL <sup>1</sup>			145,000	8,410	2,340,000	1,850,000	2,080	7,070	145,000	108,000	35,400	7,190	268,000	162,000	1,150,000	24,100	264,000	219,000	182,000	260,000	818,000
Non-Industrial RCL <sup>1</sup>			33,000	1,300	156,000	1,560,000	67	1,600	145,000	108,000	8,020	1,630	268,000	162,000	61,800	5,520	264,000	219,000	182,000	260,000	818,000
Soil to Groundwater RCL <sup>1</sup>			4.5	3.6	41.2	62.6	0.1	5.1	N.E.	N.E.	1,570	N.E.	N.E.	N.E.	2.6	658.2	N.E.	1,382	1,382	3,960	1,107
GP-1	10-12	1/8/2008	420	520	1,900	40	<39	ND	<28	ND	<28	<39	<28	<28	<56	<28	<28	<28	<96	ND	
HA-1	2-4	8/7/2012	150	<11	<7	<14	<5.9	ND	<8.8	ND	<7.2	<20	<14	<11	<39	<28	<10	<12	<12	<3.9	7.3 J
HA-2	0-2	8/7/2012	200,000	410	<26	<53	<22	ND	<33	ND	<27	<74	<53	<39	<150	<110	<37	<45	<44	<15	<24
HP-2	2-4	1/8/2008	170,000	820	250	<28	<39	ND	<28	ND	<28	<39	<28	<28	<56	<28	<28	<28	<96	ND	
	8-10		530	<30	<30	<30	<42	ND	<30	ND	<30	<42	<30	<30	<61	<61	<30	<30	<100	ND	
HP-3	2-4	1/8/2008	1,500	260	1,400	49	<38	ND	<27	ND	<27	<38	<27	<27	<54	<54	<27	<27	<92	ND	
	8-10		190	<29	320	<29	<40	ND	<29	ND	<29	<40	<29	<29	<58	<58	<29	<29	<98	ND	
SB-1	2-4	2/16/2011	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
	8-10		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
SB-2	2-4	2/16/2011	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
	8-10		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
SB-3	2-4	2/16/2011	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	53.2 J	<25.0	<25.0	<25.0	<50.0	<25.0	
	8-10		<25.0	<25.0	83.1	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
SB-4	2-4	2/16/2011	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	48.9 J	<25.0	<25.0	<25.0	<50.0	<25.0	
	8-10		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	31.3 J	<25.0	<25.0	<25.0	<50.0	<25.0	
SB-5	2-4	2/16/2011	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
	8-10		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
SB-6	2-4	2/16/2011	722	353	2,840	139	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	86.0	<25.0	<25.0	<25.0	<50.0	<25.0	
	8-10		<25.0	<25.0	368	<25.0	45.1 J	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	31.3 J	<25.0	<25.0	<25.0	<50.0	<25.0	
SB-7	6-8	9/6/2011	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
	10-12		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
SB-8	8-10	9/6/2011	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	30.2 J	<25.0	<25.0	<25.0	<50.0	<25.0	
	10-12		<2000	<2000	<2000	<2000	<2000	<2000	5,580	<3230	58,700	<26.4	10,000	2,860 J	<2000	49,600	47,900	264,000	75,800	189,000	<2,000
SB-9	6-8	9/6/2011	<39.1	<39.1	<39.1	<39.1	<39.1	<39.1	<39.1	<63.1	<39.1	45.5 J	<39.1	<39.1	<39.1	<39.1	<39.1	136	47.6 J	97.3	<39.1
	10-12		<25.0	<25.0	368	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
SB-10	8-10	9/6/2011	<26.0	<26.0	<26.0	<26.0	<26.0	<26.0	<26.0	<42.1	<26.0	<27.5	<26.0	<26.0	30.9 J	<26.0	<26.0	<26.0	<52.1	<26.0	
	10-12		451	965	88.2	<25.0	<25.0	<25.0	<25.0	<40.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	
SB-11	2-4	8/6/2012	<9.7	<11	<7.1	<14	<6	<4.3	<8.9	<7.5	<7.3	<20	<15	<11	<40	<29	<10	<12	<12	<4	9.9 J
	6-8		<8.3	<9.3	<6.1	<12	<3.4	<3.7	<7.7	<6.4	<6.3	<17	<13	<9.2	<34	<25	<8.7	<11	<10	<3.4	6.9 J
SB-12	7-9	4/19/2013	<10	<12	<7.7	<16	<6.5	<4.6	<9.6	<8.1	<7.9	<22	<16	<12	<43	<31	<11	<13	<13	<4.3	<7.2
	11-12		<12	<13	<8.5	<17	<7.2	<5.1	<11	<8.9	<8.7	<24	<17	<13	<47	<34	<12	<15	<14	<4.7	<7.9
SB-13	7-9	4/19/2013	<13	<15	<9.7	<20	<8.2	<5.8	<12	<10	<9.9	<27	<20	<15	<54	<39	<14	<17	<16	<5.4	<9.0
	11-12		<11	<12	<7.8	<16	<6.6	<4.7	<9.8	<8.2	<8.0	<22	<16	<12	<44	<31	<11	<13	<4.4	<7.3	
MW-8	7	12/2/2013	<49	<28	<24	<29	<21	390	153	410	760	<95	570	62 J	<57	<114	2,200	8,600	3,010	43 J	9,234

## Notes:

<sup>1</sup> Residual Contaminant Levels calculated according to the procedures described in WDNR Publication RR-890

All concentrations reported in micrograms per kilogram  $\mu\text{g}/\text{kg}$

**Bolded** values are above Laboratory Detection Limits

**Bolded** and **Orange Shaded** value indicates an exceedance of the Industrial Residual Contaminant Level.

**Bolded and Orange Shaded** value indicates an exceedance of the Industrial Residual Contaminant Level.

**Bolded and Green Shaded** value indicates an exceedance of the Non-Industrial Residual Contaminant Level

**Bolded and Blue Shaded** value indicates an exceedance of the Soil to Groundwater Residual Contaminant Level.

Samples analyzed using EPA SW-846 Method 8260

J = Estimated concentration between the Method Detection Limit and the Reporting Limit

N.E. = Not Established

RCI = Residual Contaminant Level

ND = Compound not detected. Data not available to EnviroForensics

**TABLE 3**  
**SOIL VAPOR EXTRACTION SYSTEM OPERATIONAL DATA**  
 Martino's Master Dry Cleaners  
 7513 41st Ave, Kenosha, Wisconsin

Date	Time	System Runtime	VFD Setting	System Vacuum	Flow Rate	Effluent CVOC Concentration	Pre-Filter Vacuum	Post-Filter Vacuum	Exhaust Temperature	Dilution	Water Volume Discharged
		Hours	Hertz	inHg	scfm	µg/m³	inHg		°F	(%)	Gallons
12/13/2017	1819	2	48	-14.0	71	108,343	-16.0	-17.0	135	0	0
5/1/2018	1625	6	40	-11.0	136	94,974	-16.0	-15.0	145	10	0
5/2/2018	1455	7	40	-11.0	134	NS	-15.0	-12.0	135	25	0
5/3/2018	1110	15	40	-8.0	161	71,549	--	--	130	25	0
5/16/2018	1538	15	38	-8.0	164	NS	-9.0	-9.0	95	25	0
5/17/2018	1400	36	30	-6.0	152	NS	-7.0	-7.0	115	50	0
5/18/2018	1040	56	30	-5.0	150	NS	-5.3	-5.0	120	50	0
5/23/2018	845	175	30	-5.5	136	27,820	-5.5	-5.5	124	50	0
5/31/2018	835	367	30	-5.0	107	14,095	-5.0	-5.0	115	50	0
6/4/2018	1346	367	30	-5.0	155	NS	--	--	115	50	0
6/27/2018	1353	553	30	-6.0	112	13,097	-7.0	-7.0	130	50	0
7/24/2018	1610	610	30	-8.0	83	23,147	-6.0	-6.0	130	15	0
8/24/2018	815	1,343	30	-8.0	106	5,791	3.5	3.0	125	30	0
9/4/2018	1120	1,354	30	-6.0	114	NS	-8.0	-7.0	105	40	0
9/21/2018	1325	1,764	30	-6.0	145	4,226	-6.0	-6.0	130	50	0
11/30/2018	1732	1,764	32	-8.5	148	NS	-8.5	-8.5	70	35	185
12/6/2018	1007	1,802	32	-8.0	123	NS	-9.0	-8.0	100	40	130
12/11/2018	754	1,831	32	-8.0	132	6,154	-8.0	-8.0	75	50	140

Notes:

-- = Reading not recorded

inHg = inches of mercury

scfm = standard cubic feet per minute

µg/m³ = micrograms per cubic meter

NS = No sample collected