

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/regs/NR700progreport.pdf>

Section GI - General Site Information

A. General Information

1. Site name

Martino's Master Dry Cleaners

2. Reporting period from: 01/01/2019	To: 06/30/2019	Days in period: 181
3. Regulatory agency (enter DNR, DATCP and/or other) DNR	4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific) 02-30-552188	

5. Site location

Region Southeast Region	County Kenosha	Address 7513 41st Ave				
Municipality name <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village Kenosha	Township 01 N	Range <input checked="" type="radio"/> E <input type="radio"/> W 22	Section 11	¼ NE	¼ ¼ NE	

6. Responsible party

Name Martino's Master Dry Cleaners
Mailing address 7513 41st Ave, Kenosha, WI 53142
Phone number (262) 694-7858

7. Consultant

<input type="checkbox"/> Select if the following information has changed since the last submittal
Company name EnviroForensics, LLC
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
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12. If soil is treated ex situ, is the treatment location off site? Yes No

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

Site name: Martino's Master Dry Cleaners
Reporting period from: 01/01/2019 To: 06/30/2019
Days in period: 181

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: \$21,400.00

4. Total costs during this reporting period: \$24,600.00

5. Total anticipated costs for the next reporting period: \$22,000.00

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:

A water discharge line to the sanitary sewer was installed during this reporting period.

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

Site name: Martino's Master Dry Cleaners
 Reporting period from: 01/01/2019 To: 06/30/2019
 Days in period: 181

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 Andrew Horwath	Title Director of Engineering and Remediation Services
Signature <i>Andrew D. Horwath</i>	Date 7/15/2019

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 Brian Kappen	Title Project Manager
Signature <i>B. J. Kappen</i>	Date 7/12/2019

Scientists:

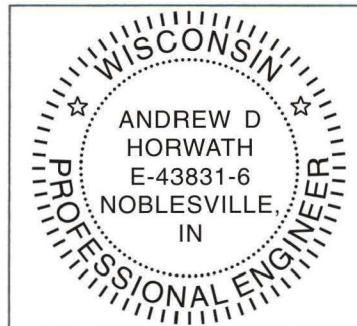
I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. 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: 01/01/2019 To: 06/30/2019
Days in period: 181

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):
90
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
50%. The system shut down periodically due to water accumulation and power interruptions. A direct water discharge line to the sanitary sewer was installed during the reporting period to increase future system utilization.
4. Average depth to groundwater: 11 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: _____

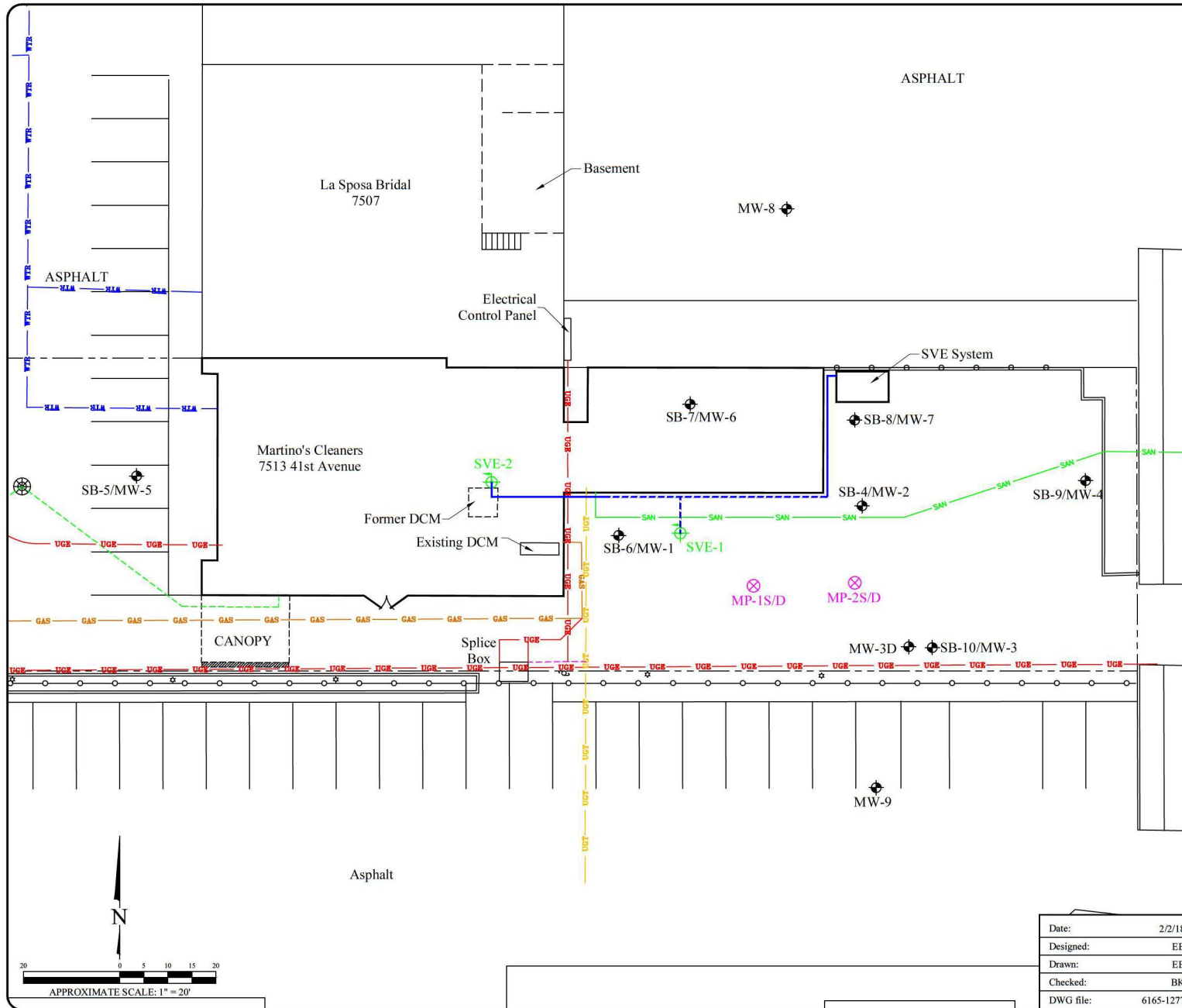
C. Effectiveness Evaluation

1. Average contaminant removal rate for the entire system: 0.04 pounds per day
2. Average contaminant removal rate per well or venting point: 0.02 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:
 - o Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
 - o 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 that 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:

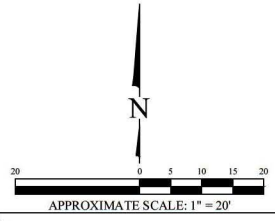
- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells.
- If water table monitoring wells are present at the site, a map of well locations.
- Time versus vapor phase contaminant concentration graph.
- Time versus cumulative 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
 - OVD Over head electrical utility line
 - UGE Underground electrical utility line
 - UGT 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)

SVE REMEDIATION SYSTEM LAYOUT

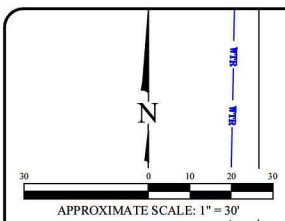
Martino's Cleaners
7513 41st Avenue
Kenosha, WI



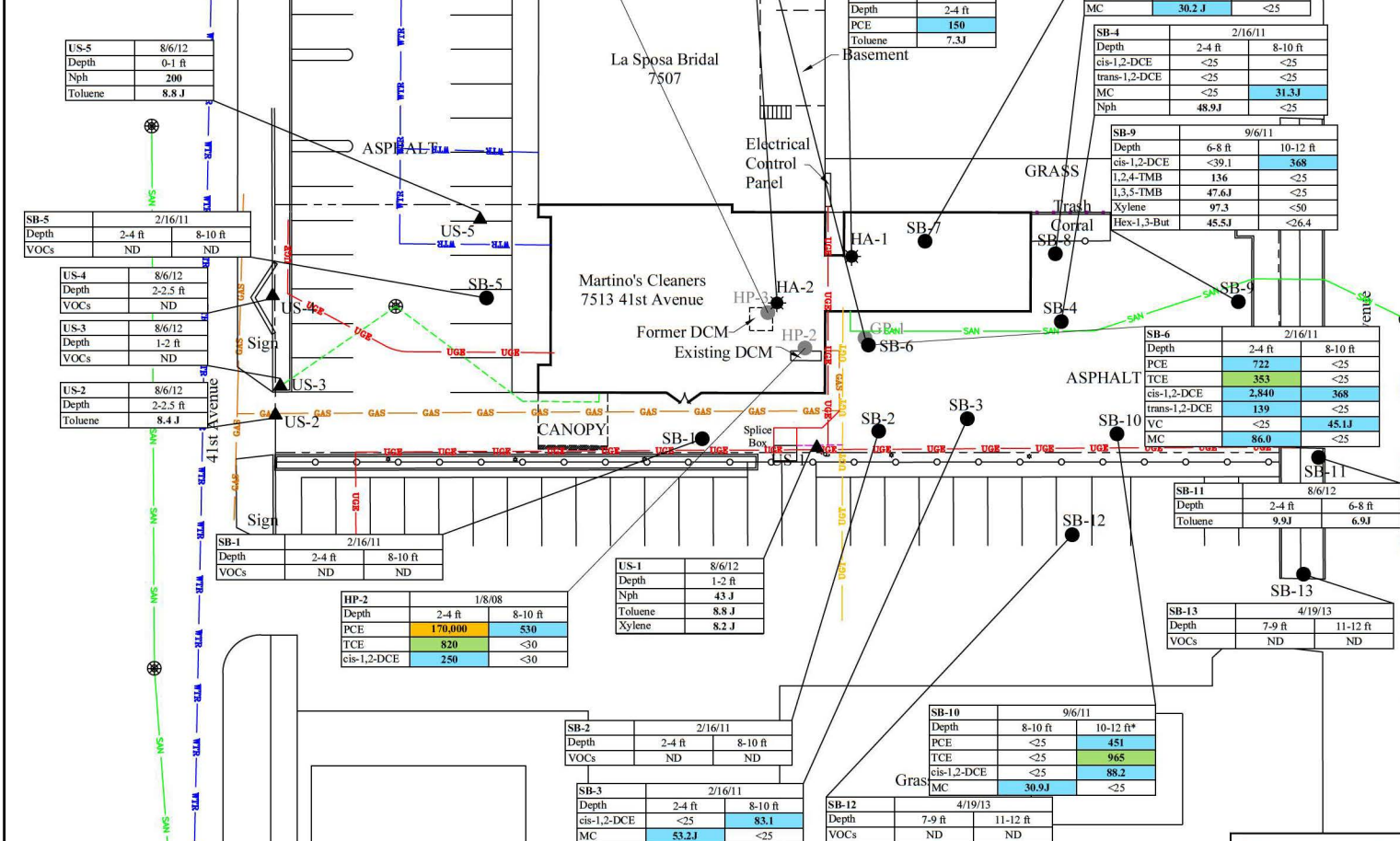
Date:	2/2/18
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6165-1277

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

Figure	1
Project	6165



- Legend**
- Property boundary
 - o- Fence line
 - o- GAS Underground gas utility line
 - o- WTR Underground water utility line
 - o- SAN Underground sanitary utility line
 - o- Underground storm utility line
 - o- OWH Over head electrical utility line
 - o- UGR Underground electrical utility line
 - o- UGT 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



Analytes	Soil Residual Contaminant Level		
	Industrial	Non-Industrial	Soil to Groundwater
PCE	153,000	30,700	4.5
TCE	8,810	644	3.6
cis-1,2-DCE	2,400,000	156,000	41.2
trans-1,2-DCE	976,000	211,000	58.8
VC	2,030	67	0.1
MC	1,070,000	60,700	2.6
Nph	26,000	5,150	659
1,2,4-TMB	219,000	89,800	1,390
1,3,5-TMB	182,000	182,000	1,380
Eb	37,000	7,470	1,570
Ipb	268,000	268,000	1,270
Xylene	388,000	388,000	3,540
Toluene	45,000,000	5,000,000	860
n-Pb	264,000	264,000	1,970
p-It	162,000	162,000	NE
sec-But	NE	NE	NE
Hex-1,3-But	22,100	6,230	1.0

- Notes:
1. Bold, shaded orange values exceed Industrial RCL
 2. Bold, shaded green values exceed Non-Industrial RCL
 3. Bold, shaded blue values exceed SRCL for Soil to Groundwater
 4. Bold values equal or exceed laboratory detection limits
 5. Results not shown are below laboratory detection limits
 6. All Soil Residual Contaminant Levels were calculated according to WDNR Publication RR-890
 7. PCE = Tetrachloroethene
 8. TCE = Trichloroethene
 9. cis-1,2-DCE = cis-1,2-Dichloroethene
 10. trans-1,2-DCE = trans-1,2-Dichloroethene
 11. VC = Vinyl Chloride
 12. MC = Methyl Chloride
 13. Nph = Naphthalene
 14. 1,2,4-TMB = 1,2,4-Trimethylbenzene
 15. 1,3,5-TMB = 1,3,5-Trimethylbenzene
 16. Eb = Ethylbenzene
 17. Ipb = Isopropylbenzene
 18. n-Pb = n-propylbenzene
 19. p-It = p-Isopropyltoluene
 20. sec-But = sec-Butylbenzene
 21. Hex-1,3-But = Hexachloro-1,3-butadiene
 22. J = Analyte concentration detected between the laboratory Reporting Limit and the laboratory Method Detection Limit
 23. NE = Not Established
 24. ND = Compounds not detected
 25. * = Sample collected within zone of intermittent saturation

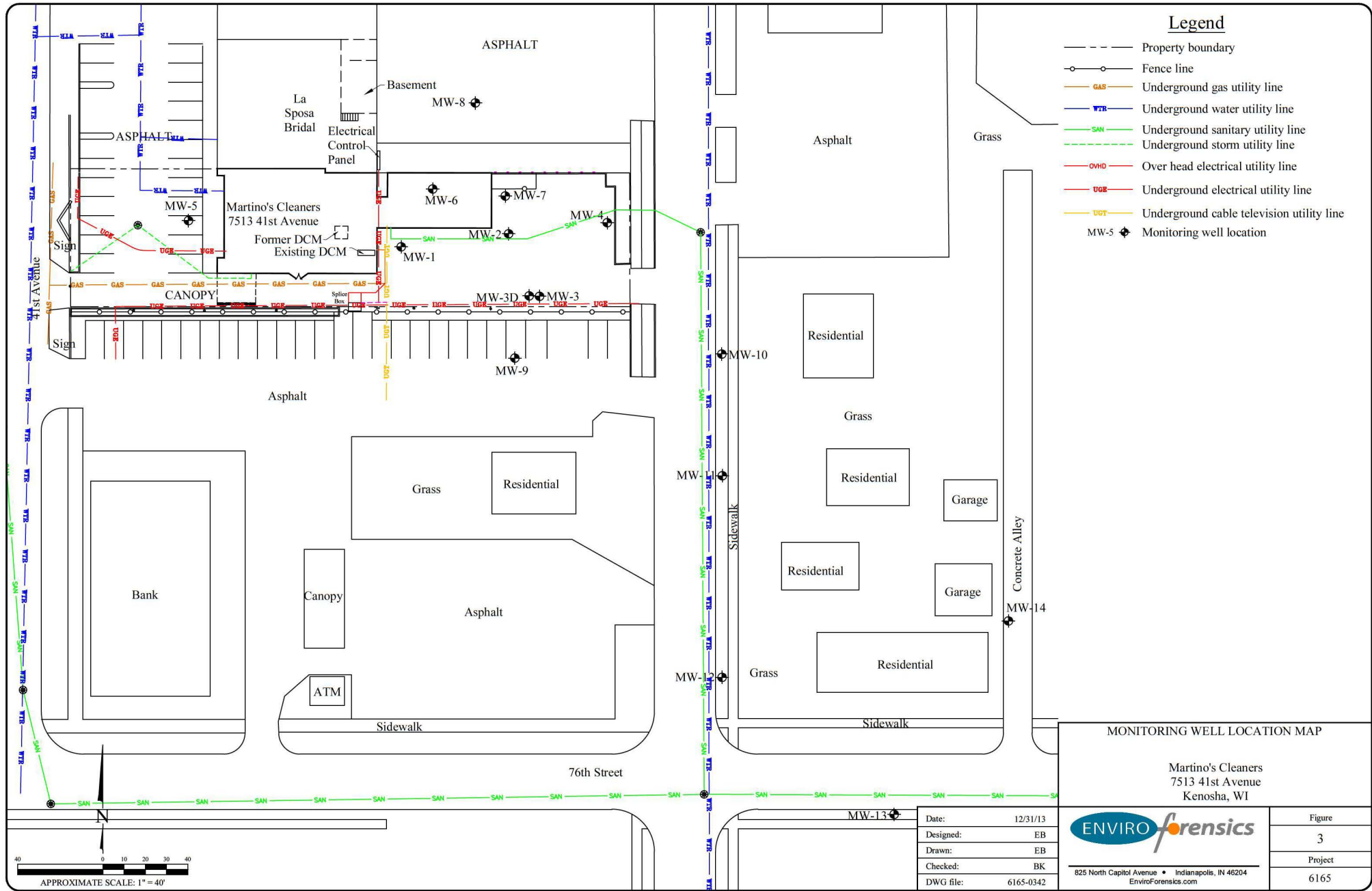
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

Martino's Cleaners
7513 41st Avenue
Kenosha, WI

Date:	4/29/15
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6165-0825



Figure	2
Project	6165



Legend

- Property boundary
- Fence line
- GAS Underground gas utility line
- WTR Underground water utility line
- SAN Underground sanitary utility line
- Underground storm utility line
- OHED Over head electrical utility line
- UGR Underground electrical utility line
- UCT Underground cable television utility line
- MW-5 Monitoring well location

MONITORING WELL LOCATION MAP

Martino's Cleaners
7513 41st Avenue
Kenosha, WI

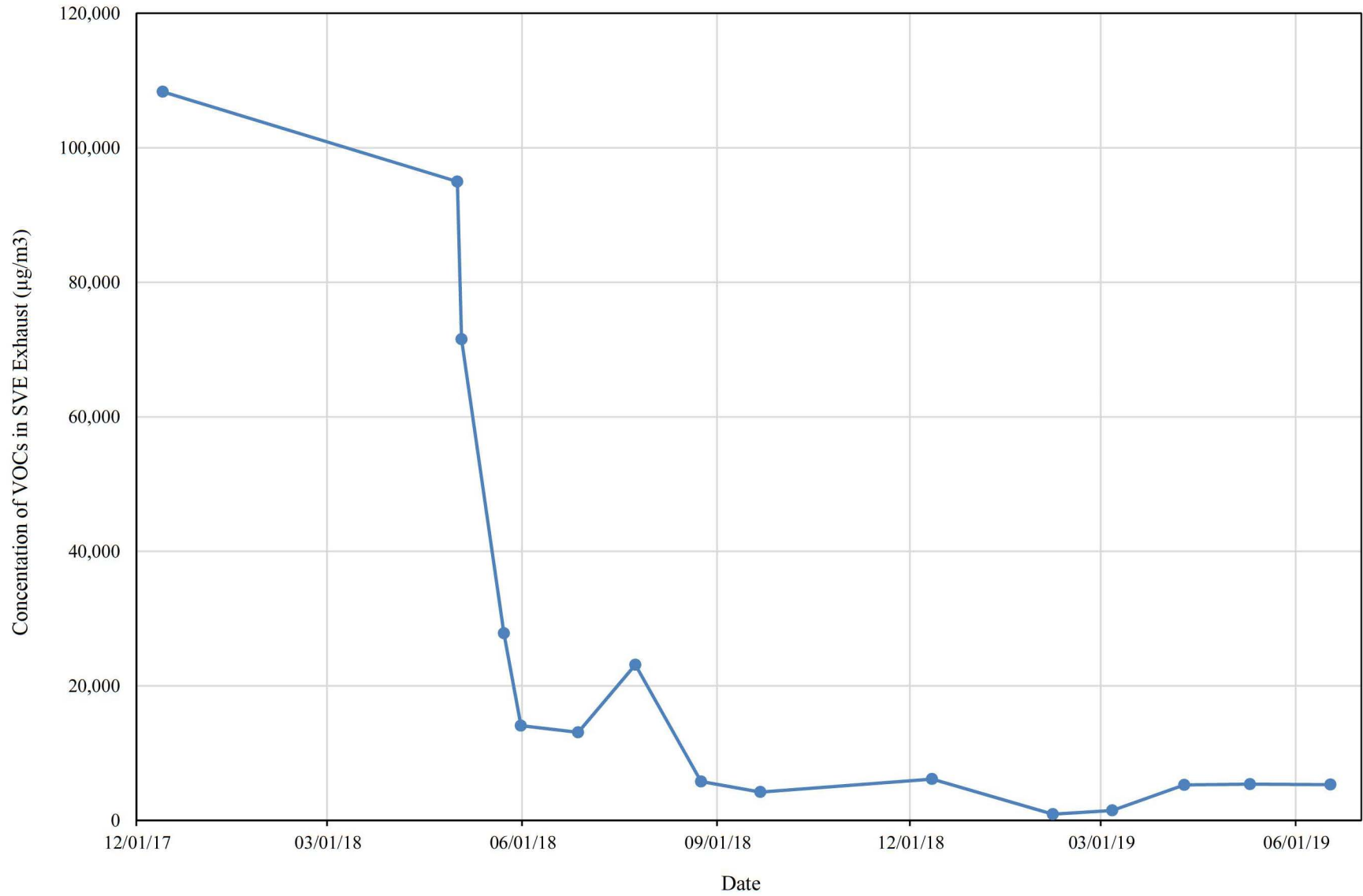
Date:	12/31/13
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6165-0342

ENVIROforensics
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EnviroForensics.com

Figure	3
Project	6165

APPROXIMATE SCALE: 1" = 40'

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

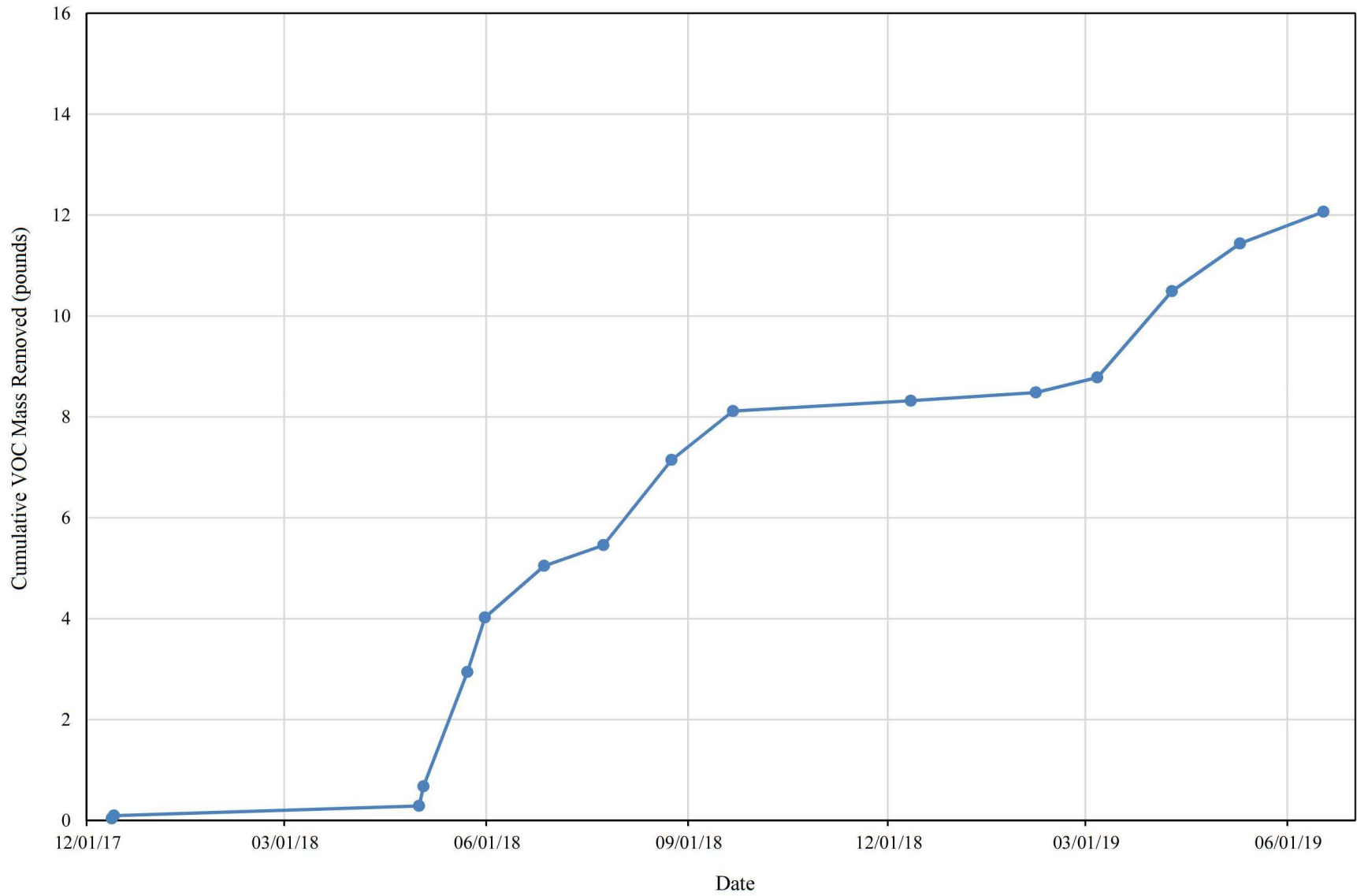


TABLE 1
GROUNDWATER ELEVATION SUMMARY
 Martino's Master Drycleaners
 7513 41st Avenue, Kenosha, Wisconsin

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
2/20/2019	10.61	630.09			
			<i>Min</i>	<i>10.53</i>	<i>629.26</i>
			<i>Max</i>	<i>11.44</i>	<i>630.17</i>
			<i>Avg</i>	<i>11.00</i>	<i>629.70</i>
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
2/20/2019	10.13	629.93			
			<i>Min</i>	<i>10.09</i>	<i>629.07</i>
			<i>Max</i>	<i>10.99</i>	<i>629.97</i>
			<i>Avg</i>	<i>10.53</i>	<i>629.53</i>
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
2/20/2019	10.42	629.79			
			<i>Min</i>	<i>10.42</i>	<i>628.97</i>
			<i>Max</i>	<i>11.24</i>	<i>629.79</i>
			<i>Avg</i>	<i>10.85</i>	<i>629.36</i>
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
			2/20/2019	10.80	629.57
			<i>Max</i>	<i>11.40</i>	<i>629.64</i>
			<i>Avg</i>	<i>11.02</i>	<i>629.33</i>

**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
			2/20/2019	10.22	629.85
		<i>Min</i>	10.18	629.04	
		<i>Max</i>	11.03	629.89	
		<i>Avg</i>	10.61	629.46	
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
			2/20/2019	9.90	630.43
		<i>Min</i>	9.56	629.70	
		<i>Max</i>	10.63	630.77	
		<i>Avg</i>	10.14	630.19	
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
			2/20/2019	10.71	NA
		<i>Min</i>	10.71	NA	
		<i>Max</i>	11.79	NA	
		<i>Avg</i>	11.32	NA	
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
			2/20/2019	10.72	629.94
		<i>Min</i>	10.65	629.12	
		<i>Max</i>	11.54	630.01	
		<i>Avg</i>	11.06	629.60	

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-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>	8.93	629.27
<i>Max</i>	9.72	630.06			
<i>Avg</i>	9.34	629.65			
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>	11.38	628.93
<i>Max</i>	12.16	629.71			
<i>Avg</i>	11.77	629.32			
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>	10.63	629.07
<i>Max</i>	11.19	629.63			
<i>Avg</i>	10.97	629.29			
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
			2/20/2019	11.91	629.60
			<i>Min</i>	11.91	628.97
<i>Max</i>	12.54	629.60			
<i>Avg</i>	12.30	629.21			
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
			2/20/2019	13.97	629.21
			<i>Min</i>	13.97	628.72
<i>Max</i>	14.46	629.21			
<i>Avg</i>	14.26	628.92			

**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
			2/20/2019	13.69	628.34
			<i>Min</i>	<i>13.69</i>	<i>628.06</i>
			<i>Max</i>	<i>13.97</i>	<i>628.34</i>
<i>Avg</i>	<i>13.84</i>	<i>628.19</i>			
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
			2/20/2019	11.83	629.15
			<i>Min</i>	<i>11.79</i>	<i>628.73</i>
			<i>Max</i>	<i>12.25</i>	<i>629.19</i>
<i>Avg</i>	<i>12.04</i>	<i>628.94</i>			

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 anomolous and excluded from statistics

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
 Martino's Master Drycleaners
 7513 41st Avenue, Kenosha, Wisconsin

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 ¹			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 ¹			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 ¹			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	<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	<56	<28	<28	<28	<96	ND	
	8-10		530	<30	<30	<30	<42	ND	<30	ND	<30	<42	<30	<30	<61	<61	<30	<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	<27	<92	ND	
	8-10		190	<29	320	<29	<40	ND	<29	ND	<29	<40	<29	<29	<58	<58	<29	<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	<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	<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	<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	<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	<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	<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	<25.0	48.9 J	<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	31.3 J	<25.0	<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	<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	<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	<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	<25.0	<25.0	<25.0	<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	<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	<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	<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	<63.1	<39.1	45.5 J	<39.1	<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	<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	<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	<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	<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:

¹ Residual Contaminant Levels calculated according to the procedures described in WDNR Publication RR-890
 All concentrations reported in micrograms per kilogram µg/kg
 Bolded values are above Laboratory Detection Limits
 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
 RCL = 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	Influent Flow Rate	Flow Rate	Effluent CVOC Concentration	Pre-Filter Vacuum	Post-Filter Vacuum	Exhaust Temperature	Dilution	Flow Meter Reading	Water Volume Discharged
		Hours	Hertz	inHg	fpm	scfm	$\mu\text{g}/\text{m}^3$	inHg		$^{\circ}\text{F}$	(%)	Gallons	Gallons
12/13/2017	1819	2	48	-14.0	3,015	71	108,343	-16.0	-17.0	135	0	--	0
5/1/2018	1625	6	40	-11.0	4,920	136	94,974	-16.0	-15.0	145	10	--	0
5/2/2018	1455	7	40	-11.0	4,780	134	NS	-15.0	-12.0	135	25	--	0
5/3/2018	1110	15	40	-8.0	4,910	161	71,549	--	--	130	25	--	0
5/16/2018	1538	15	38	-8.0	4,710	164	NS	-9.0	-9.0	95	25	--	0
5/17/2018	1400	36	30	-6.0	4,140	152	NS	-7.0	-7.0	115	50	--	0
5/18/2018	1040	56	30	-5.0	3,950	150	NS	-5.3	-5.0	120	50	--	0
5/23/2018	845	175	30	-5.5	3,690	136	27,820	-5.5	-5.5	124	50	--	0
5/31/2018	835	367	30	-5.0	2,790	107	14,095	-5.0	-5.0	115	50	--	0
6/4/2018	1346	367	30	-5.0	4,060	155	NS	--	--	115	50	--	0
6/27/2018	1353	553	30	-6.0	3,140	112	13,097	-7.0	-7.0	130	50	--	0
7/24/2018	1610	610	30	-8.0	2,530	83	23,147	-6.0	-6.0	130	15	--	0
8/24/2018	815	1,343	30	-8.0	3,220	106	5,791	3.5	3.0	125	30	--	0
9/4/2018	1120	1,354	30	-6.0	3,054	114	NS	-8.0	-7.0	105	40	--	0
9/21/2018	1325	1,764	30	-6.0	4,068	145	4,226	-6.0	-6.0	130	50	--	0
11/30/2018	1732	1,764	32	-8.5	4,160	148	NS	-8.5	-8.5	70	35	--	185
12/6/2018	1007	1,802	32	-8.0	3,570	123	NS	-9.0	-8.0	100	40	--	130
12/11/2018	754	1,831	32	-8.0	3,670	132	6,154	-8.0	-8.0	75	50	--	140
1/7/2019	1316	1,997	32	-7.5	5,057	182	NS	-9.5	-9.0	90	45	--	0
1/24/2019	1135	2,001	32	-9.0	4,886	162	NS	-9.0	-9.5	95	20	--	0
2/6/2019	955	2,174	32	-8.2	4,030	136	937	-8.8	-8.6	109	35	--	270
3/6/2019	1217	2,582	32	-7.5	3,830	130	1,490	-9.5	-9.0	120	55	--	0
4/9/2019	1534	3,095	32	-6.0	4,681	169	5,282	-9.0	-8.5	125	50	--	260
5/10/2019	1210	3,670	40	-12.0	3,140	81	5,396	-15.0	-15.5	150	30	4,977	4,977
6/17/2019	1215	4,004	40	-11.0	3,332	94	5,332	-14.0	-14.0	130	25	8,020	3,043

Notes:

-- = Reading not recorded
inHg = inches of mercury
scfm = standard cubic feet per minute
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter
NS = No sample collected