

Pfeiffer, Jane K - DNR

From: Brian Kappen <bkappen@enviroforensics.com>
Sent: Thursday, September 16, 2021 12:44 PM
To: Pfeiffer, Jane K - DNR
Subject: RE: 02-30-552186 Case Closure

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Source Building Assessment

Vapor sampling within the sanitary sewer conduit was performed inside the Site building to assess whether vapor has the *potential* to affect indoor air if a direct pathway from a conduit was established. In this case, a 4-inch drain for a former toilet was utilized for conduit access and sampling. The drain is sealed with an expandable plug. A vapor sample designated SSG-ST was collected as follows:

1. The expandable plug was removed and immediately replaced with a 4-inch expandable plug equipped with a sampling port.
2. The connections of a 1-liter vacuum canister were tested and air was purged from the tubing by applying negative pressure with a hand pump. The pressure held steady over a 60-second observation period.
3. A sample was collected at a rate of 200 mL per minute.

The compounds of concern were not detected in vapor sample SSG-ST, indicating little to no risk of vapor from the sanitary sewer conduit affecting indoor air. A compromised section of sanitary sewer conduit, including a leaky floor drain trap, was replaced with new PVC conduit during the source area remediation. This action likely removed the possible source of vapor in the source building sanitary sewer conduit.

Right-of-Way Assessment

Potential vapor impacts in the right-of-way were further assessed by collecting a vapor sample from a manhole located in the terrace of 40th Avenue, west of the commercial "strip mall" at the site and downstream of the source building. A vapor sample designated SSG-MH was collected as follows:

1. The manhole cover was removed (a vent was not present in the cover) and plastic sheeting was placed over the manhole opening.
2. The connections of a 1-liter vacuum canister were tested and air was purged from the tubing by applying negative pressure with a hand pump. The pressure held steady over a 60-second observation period.
3. A small hole was cut in the plastic sheeting through which sample tubing was suspended approximately 1-foot above the liquid/sludge surface
4. A sample was collected at a rate of 200 mL per minute.

The compounds of concern were not detected in vapor sample SSG-MH, indicating little to no risk of vapor in the sanitary sewer affecting other properties. This is consistent with the results of soil gas samples previously collected near the sewer line in 40th Avenue.

From: Pfeiffer, Jane K - DNR [mailto:jane.pfeiffer@wisconsin.gov]
Sent: Thursday, September 16, 2021 10:22 AM
To: Brian Kappen <bkappen@enviroforensics.com>
Subject: RE: 02-30-552186 Case Closure

Good Morning Brian,

As we discussed on the phone, regarding the data that was recently collected from SSG-ST and SSG-MH to assess the utility corridors as preferential pathways at this site, please provide the following information:

- Per Wis. Admin. Code § NR 716.15(2)(e), provide a description of the investigative techniques.
- Per Wis. Admin. Code § NR 716.15(3)(h), provide an interpretation of the data.

This information can be provided in an email response.

Thank you,

Jane

From: Pfeiffer, Jane K - DNR
Sent: Thursday, September 9, 2021 10:44 AM
To: Brian Kappen <bkappen@enviroforensics.com>
Subject: RE: 02-30-552186 Case Closure

Hi Brian,

Thank you for the information. Following my review of this additional documentation I will reach out with any questions I might have.

Best,

Jane

From: Brian Kappen <bkappen@enviroforensics.com>
Sent: Thursday, September 9, 2021 8:33 AM
To: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>
Subject: 02-30-552186 Case Closure

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Jane,

The attached documents are related to the additional data requested in DNR's closure not recommended letter dated August 4, 2021. Included are:

- A lab report for recent samples SSV-1; and sanitary sewer gas samples SSG-ST (collected from a former toilet drain in the Martino's Cleaners space – 3917 52nd St), and SST-MH (collected from the manhole in the 40th Ave terrace west of the commercial building)
- A photo of location SSG-ST, showing sample collection via a port installed through an expandable 4-inch plug
- Updated Tables A.4.a and A.4.b
- Updated Figures B.4.a.1 and B.4.a.2
- An updated SSDS decommissioning report for 3909 52nd St (case closure form section C.5)

I believe this satisfies the additional requirements needed for case closure. Contact me with any questions.

Regards,

Brian Kappen, Senior Geologist/ Project Manager

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TABLE A.4.a
VAPOR ANALYTICAL TABLE - SOIL GAS AND SANITARY SEWER GAS
 Martino's Master DryCleaners
 3917 52nd Street, Kenosha, Wisconsin

Sampling Identification	Sample Date	Sample Depth (feet)	Sample Collection Method	Time Period	Leak Detection Method(s)	Leak Detection Result	Applicable Criteria	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Acetone	Carbon Disulfide	Dichlorodifluoromethane	n-Hexane	Methylene Chloride	Methyl Ethyl Ketone	Tetrahydrofuran	Trichlorofluoromethane	Toluene	Vinyl Acetate			
Small Commercial Vapor Risk Screening Level ¹								5,800	290	NE	5,800	930	4,700,000	100,000	15,000	100,000	87,000	730,000	NE	100,000	730,000	29,000			
<i>Residential Vapor Risk Screening Level ¹</i>								<i>1,400</i>	<i>70</i>	<i>NE</i>	<i>1,400</i>	<i>56</i>	<i>1,070,000</i>	<i>24,300</i>	<i>3,300</i>	<i>24,300</i>	<i>21,000</i>	<i>173,000</i>	<i>NE</i>	<i>24,300</i>	<i>173,000</i>	<i>7,000</i>			
6190-SG-5	10/20/2011	5	Permanent Implant	Grab (5 min)	He Shroud/ Shut-In	Passed	Commercial	57	3.8	<1.4	<1.4	<0.90	21.0	1.8	6.2	2.4	11.2	18.8	20.5	19.5	4.4	4.0			
6190-PRT-1	7/17/2013	3	Direct-Push PRT	Grab (5 min)	He Shroud/ Shut-In	Passed	Commercial	<1,300	<1,100	91,000	3,000	32,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
6190-PRT-2	7/17/2013	3	Direct-Push PRT	Grab (5 min)	He Shroud/ Shut-In	Passed	Commercial	4,200	5,800	83,000	10,000	39,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
6190-PRT-3	7/17/2013	3	Direct-Push PRT	Grab (5 min)	He Shroud/ Shut-In	Passed	Commercial	14,000	1,100	510	<48	360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
6190-PRT-4	10/22/2014	9	Direct-Push PRT	Grab (5 min)	He Shroud/ Shut-In	Passed	Residential	113	12	<198	<396	<12.8	<23,800	<3,110	<495	<1,760	<417	NA	<2,950	<5,620	<37,700	<1,760			
6190-PRT-5	10/22/2014	9	Direct-Push PRT	Grab (5 min)	He Shroud/ Shut-In	Passed	Commercial	249	<10.7	<198	<396	<12.8	<23,800	<3,110	<495	<1,760	<417	NA	<2,950	<5,620	<37,700	<1,760			
6190-PRT-6	4/21/2015	6	Direct-Push PRT	Grab (5 min)	He Shroud/ Shut-In	Passed	Residential	<31.9	25.3	479	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
6190-PRT-7	4/21/2015	9	Direct-Push PRT	Grab (5 min)	He Shroud/ Shut-In	Passed	Residential	<31.9	<10.7	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
6190-PRT-8	4/21/2015	8	Direct-Push PRT	Grab (5 min)	He Shroud/ Shut-In	Passed	Residential	<31.9	<10.7	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
6190-PRT-9	4/28/2015	8	Direct-Push PRT	Grab (5 min)	He Shroud/ Shut-In	Passed	Residential	<31.9	<10.7	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
6190-SSG-ST ²	8/26/2021	NA	Grab	Grab (5 min)	Negative Pressure	Passed	Commercial	<31.9	<10.7	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
6190-SSG-MH ³	8/26/2021	NA	Grab	Grab (5 min)	Negative Pressure	Passed	Commercial	<31.9	<10.7	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

Notes:

¹ The vapor risk screening levels are calculated in accordance with the procedures described in WDNR Publication RR-800 and subsequent guidance

² Sanitary sewer gas sample collected from former toilet drain inside 3917 52nd Street

³ Sanitary sewer gas sample collected from manhole in terrace of 40th Ave, west of commercial buildings

All concentrations reported in units of micrograms per cubic meter = µg/m³

All samples collected in 1-liter vacuum canisters and analyzed by EPA Test Method TO-15

Bolded values exceed the small commercial Vapor Risk Screening Level

NA = Not Analyzed or Applicable

NE = Not Established

PRT = Post-Run Tubing

TABLE A.4.b
VAPOR ANALYTICAL TABLE - COMMERCIAL SUB-SLAB VAPOR
 Martino's Master Drycleaners
 3917 52nd Street, Kenosha, Wisconsin

Sample Address	Sample Identification	Sample Date	Sample Collection Method	Time Period	Leak Detection Method(s)	Leak Detection Result	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chloroform	Chloromethane	Cyclohexane	1,4 Dichlorobenzene	1,1 Dichloroethane	1,2 Dichloroethane	Ethyl Acetate	Ethyl Benzene			
Small Commercial Vapor Risk Screening Level ¹							5,800	290	NE	5,800	930	4,700,000	520	110	100,000	180	13,000	870,000	370	2,600	160	NE	1,600			
3907 52nd St	6190-SSV-4	12/20/2012	Vapor Pin	Grab (5 min)	He Shroud/Shut-In	Passed	28	<11	<7.9	NA	<5.1	NA	<6.4	NA	NA	<9.8	<10	NA	<12	<8.1	<8.1	NA	<8.7			
		3/20/2015	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	14	<11	<7.9	NA	<5.1	NA	NA	<6.4	NA	NA	<9.8	<10	NA	<12	<8.1	<8.1	NA	<8.7		
3909 52nd St	6190-SSV-1	6/7/2011	Vapor Pin	Grab (5 min)	He Shroud/Shut-In	Passed	28,000	430	<0.60	1.0	<0.39	27,000	2.5	<1.0	0.95	2.4	<0.40	<0.52	1.7	<0.62	<0.62	<0.92	2.7			
		8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	4,580	724	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	936	56.6	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	956	70.2	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		8/26/2021	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	699	27.9	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6190-SSV-1A	8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<31.9	<10.7	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	8.61	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	17.5	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3917 52nd St	6190-SSV-2	6/7/2011	Vapor Pin	Grab (5 min)	He Shroud/Shut-In	Passed	18,000	490	7.1	3.0	<0.39	1,500	15	<1.0	1.7	300	2.3	19	3.7	16	<0.62	82	9.3			
		8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	991	<10.7	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	599	4.03	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	1,060	4.62	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	6190-SSV-2A	8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	1,340	12.4	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	848	3.71	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	46.1	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3931 52nd St	6190-SSV-3	6/7/2011	Vapor Pin	Grab (5 min)	He Shroud/Shut-In	Passed	77	1.1	<0.60	<0.60	0.44	980	2.1	1.2	1.0	230	<0.40	<0.52	4.3	<0.62	4.4	28	2.8			
		9/9/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	488	<10.7	<198	<396	<12.8	<23,800	<16.0	<5.36	<3,110	<8.30	<206	<55,100	<6.01	<40.5	<4.05	<18,000	<86.8			
		11/24/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<31.9	<10.7	<198	<396	<12.8	<23,800	<16.0	<5.36	<3,110	<8.30	<206	<55,100	<6.01	<40.5	<4.05	<18,000	<86.8			
		8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	86.8	<10.7	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<3.19	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	6190-SSV-7	2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	21.7	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		9/9/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	1,530	331	<198	<396	<12.8	<23,800	<16.0	<5.36	<3,110	<8.30	<206	<55,100	<6.01	<40.5	<4.05	<18,000	<86.8			
		11/24/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	1,350	161	<198	<396	<12.8	<23,800	<16.0	<5.36	<3,110	<8.30	<206	<55,100	<6.01	<40.5	<4.05	<18,000	<86.8			
		8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	2,560	230	<198	<396	<12.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	589	46.5	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	926	33.9	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
3933 52nd St	6190-SSV-5	9/9/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	997	<10.7	<198	<396	<12.8	<23,800	<16.0	<5.36	<3,110	<8.30	<206	<55,100	<6.01	<40.5	<4.05	<18,000	<86.8			
		11/24/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	40.7	<10.7	<198	<396	<12.8	<23,800	<16.0	<5.36	<3,110	<8.30	<206	<55,100	<6.01	<40.5	<4.05	<18,000	<86.8			
	6190-SSV-6	9/9/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	191	<10.7	<198	<396	<12.8	<23,800	<16.0	<5.36	<3,110	14.6	<206	<55,100	<6.01	<40.5	<4.05	<18,000	<86.8			
		11/24/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	425	<10.7	<198	<396	<12.8	<23,800	<16.0	<5.36	<3,110	<8.30	<206	<55,100	<6.01	<40.5	<4.05	<18,000	<86.8			

Notes:

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

All concentrations reported in units in micrograms per cubic meter = µg/m³

All samples collected in 1-liter vacuum canisters and analyzed by EPA Test Method TO-15

Only detected compounds are listed

Bolded values exceed the small commercial Vapor Risk Screening Level

NA = Not Analyzed

NE = Not Established

TABLE A.4.b
VAPOR ANALYTICAL TABLE - COMMERCIAL SUB-SLAB VAPOR
 Martino's Master Drycleaners
 3917 52nd Street, Kenosha, Wisconsin

Sample Address	Sample Identification	Sample Date	Sample Collection Method	Time Period	Leak Detection Method(s)	Leak Detection Result	4-ethyltoluene	Trichlorofluoromethane (Freon 11)	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	Dichlorodifluoromethane (Freon 12)	Heptane	Hexane	Isopropyl Alcohol	Methyl Butyl Ketone	Methyl Ethyl Ketone	Methyl Isobutyl Ketone	Styrene	1,1,1-Trichloroethane	Toluene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	m&p Xylene	o-Xylene	
Small Commercial Vapor Risk Screening Level¹							NE	NE	NE	NE	NE	100,000	NE	NE	730,000	430,000	150,000	730,000	730,000	8,700	8,700	15,000	15,000	
3907 52nd St	6190-SSV-4	12/20/2012	Vapor Pin	Grab (5 min)	He Shroud/Shut-In	Passed	NA	110	<15	18	NA	NA	NA	NA	NA	NA	<8.5	<11	15	<9.8	<9.8	<8.7	<8.7	
		3/20/2015	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	<11	<15	<9.9	NA	NA	NA	NA	NA	NA	NA	<8.5	<11	<7.5	<9.8	<9.8	<8.7	<8.7
3909 52nd St	6190-SSV-1	6/7/2011	Vapor Pin	Grab (5 min)	He Shroud/Shut-In	Passed	2.1	1.5	1.3	2.7	<0.62	<0.54	<0.37	<1.2	<0.90	<1.2	3.6	53	170	11	4.1	11	2.7	
		8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		8/26/2021	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6190-SSV-1A	8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3917 52nd St	6190-SSV-2	6/7/2011	Vapor Pin	Grab (5 min)	He Shroud/Shut-In	Passed	4.9	1.9	23	3.0	36	70	220	<1.2	22	2.9	<0.65	2,100	34	19	8.2	19	7.7	
		8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	6190-SSV-2A	8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3931 52nd St	6190-SSV-3	6/7/2011	Vapor Pin	Grab (5 min)	He Shroud/Shut-In	Passed	<0.75	2.5	1.4	3.1	<0.62	<0.54	<0.37	6.0	27	5.0	13	1.6	19	14	<0.75	8.5	3.0	
		9/9/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<4,920	<5,620	<5,620	<495	<4,100	<1,760	NA	NA	NA	NA	<4,260	<5,460	<37,700	<49.2	<49.2	<434	<434	
		11/24/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<4,920	<5,620	<5,620	<495	<4,100	<1,760	NA	NA	NA	NA	<4,260	<5,460	<37,700	<49.2	<49.2	<434	<434	
		8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/11/2020	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	6190-SSV-7	9/9/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<4,920	<5,620	<5,620	<495	<4,100	<1,760	NA	NA	NA	NA	<4,260	<5,460	<37,700	<49.2	<49.2	<434	<434	
		11/24/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<4,920	<5,620	<5,620	<495	<4,100	<1,760	NA	NA	NA	NA	<4,260	<5,460	<37,700	<49.2	<49.2	<434	<434	
		8/1/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/11/2019	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/11/2020		Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3933 52nd St	6190-SSV-5	9/9/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<4,920	<5,620	<5,620	<495	<4,100	<1,760	NA	NA	NA	NA	<4,260	<5,460	<37,700	<49.2	<49.2	<434	<434	
		11/24/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<4,920	<5,620	<5,620	<495	<4,100	<1,760	NA	NA	NA	NA	<4,260	<5,460	<37,700	<49.2	<49.2	<434	<434	
	6190-SSV-6	9/9/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<4,920	<5,620	<5,620	<495	<4,100	<1,760	NA	NA	NA	NA	<4,260	<5,460	<37,700	<49.2	<49.2	<434	<434	
		11/24/2014	Vapor Pin	Grab (5 min)	Water Dam/Shut-In	Passed	<4,920	<5,620	<5,620	<495	<4,100	<1,760	NA	NA	NA	NA	<4,260	<5,460	<37,700	<49.2	<49.2	<434	<434	

Notes:

- ¹ The vapor risk screening levels for small commercial structures are calculated in accordance with the procedures described in WDNR Publication RR-800 and subsequent guidance
- All concentrations reported in units in micrograms per cubic meter = µg/m³
- All samples collected in 1-liter vacuum canisters and analyzed by EPA Test Method TO-15
- Only detected compounds are listed
- Bolded** values exceed the small commercial Vapor Risk Screening Level
- NA = Not Analyzed
- NE = Not Established

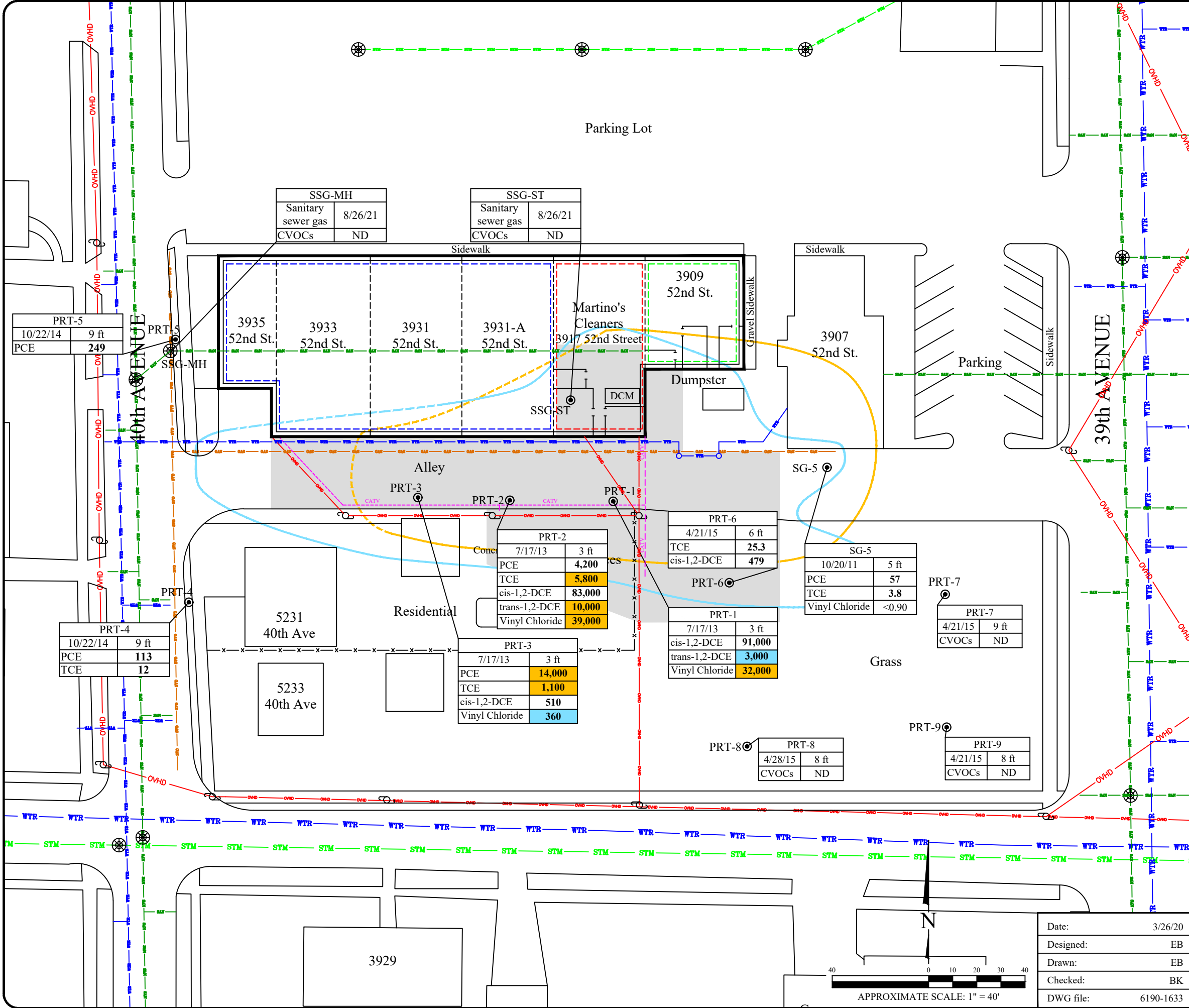
Legend

- PRT-1 ● Soil gas sample location
- SG-1 ● Soil gas sampling point
- GAS — Underground gas utility line
- WTR — Underground water utility line
- SAN — Underground sanitary utility line
- STM — Underground storm utility line
- OVHD — Over head electrical utility line
- CATV — Underground cable television utility line
- Slab foundation #1
- Slab foundation #2
- Slab foundation #3
- x-x-x-x-x- Fence line

Analyte	Soil Gas	
	Residential Vapor Risk Screening Level	Small Commercial Vapor Risk Screening Level
PCE	1,400	5,800
TCE	70	290
cis-1,2-DCE	NE	NE
trans-1,2-DCE	1,400	5,800
Vinyl Chloride	56	930

- Notes:
1. Bold and shaded blue values exceed the WDNR Residential Vapor Risk Screening Level
 2. Bold and shaded orange values exceed the WDNR Small Commercial Vapor Risk Screening Level
 3. Bold values equal or exceed laboratory detection limits
 4. Soil gas results reported in micrograms per cubic meter = ug/m³
 5. PCE - Tetrachloroethene
 6. TCE - Trichloroethene
 7. cis-1,2-DCE = cis-1,2-Dichloroethene
 8. trans-1,2-DCE = trans-1,2-Dichloroethene
 9. ND = CVOCs not detected
 10. CVOCs = Chlorinated Volatile Organic Compounds
 11. Only CVOCs are shown on this figure

- Area where residual contamination poses a future vapor intrusion risk
- Extent of CVOC groundwater impacts above enforcement standards (dashed where inferred)
- Extent of CVOC concentrations exceeding the soil to groundwater RCL (dashed where inferred)



SSG-MH		SSG-ST	
Sanitary sewer gas	8/26/21	Sanitary sewer gas	8/26/21
CVOCs	ND	CVOCs	ND

PRT-5	10/22/14	9 ft
PCE	249	

PRT-4	10/22/14	9 ft
PCE	113	
TCE	12	

PRT-2		PRT-3	
Conc	7/17/13	3 ft	3 ft
PCE	4,200	PCE	14,000
TCE	5,800	TCE	1,100
cis-1,2-DCE	83,000	cis-1,2-DCE	510
trans-1,2-DCE	10,000	trans-1,2-DCE	360
Vinyl Chloride	39,000	Vinyl Chloride	360

PRT-6		PRT-1	
4/21/15	6 ft	7/17/13	3 ft
TCE	25.3	cis-1,2-DCE	91,000
cis-1,2-DCE	479	trans-1,2-DCE	3,000
Vinyl Chloride	479	Vinyl Chloride	32,000

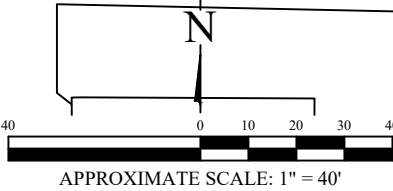
SG-5	
10/20/11	5 ft
PCE	57
TCE	3.8
Vinyl Chloride	<0.90

PRT-8	
4/28/15	8 ft
CVOCs	ND

PRT-9	
4/21/15	8 ft
CVOCs	ND

VAPOR INTRUSION MAP SOIL GAS AND SANITARY SEWER GAS

Martino's Cleaners
3917 52nd Street
Kenosha, Wisconsin



Date:	3/26/20
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6190-1633



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Figure	B.4.a.1
Project	6190

Legend

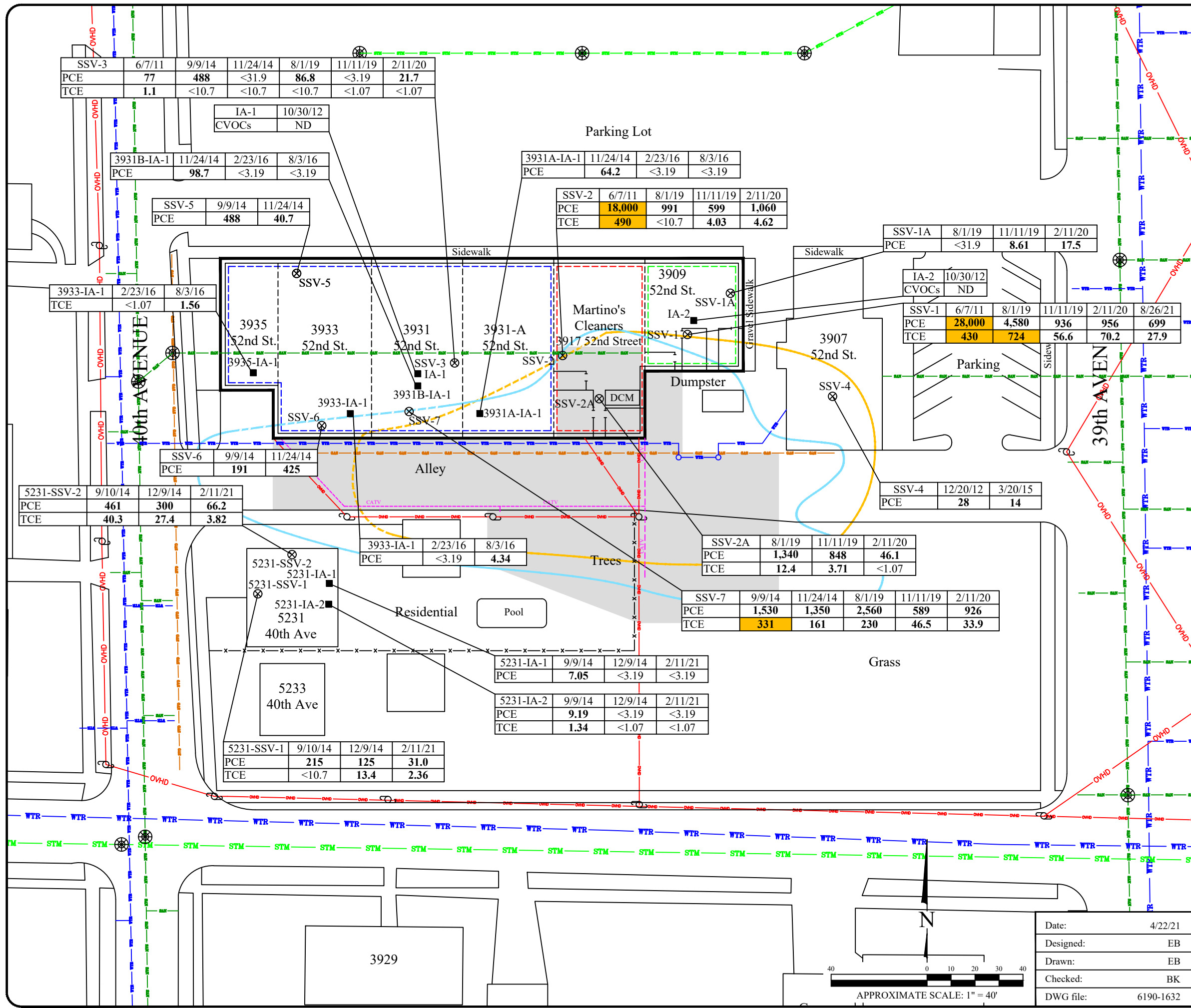
- SSV-1 ⊗ Sub-slab vapor sample location
- IA-1 ■ Indoor air sample location
- GAS — Underground gas utility line
- WTR — Underground water utility line
- SAN — Underground sanitary utility line
- STM — Underground storm utility line
- OVHD — Over head electrical utility line
- CATV — Underground cable television utility line
- Slab foundation #1
- - - Slab foundation #2
- · - Slab foundation #3
- x - x - x - Fence line

Indoor Air		
Analyte	Residential Vapor Action Level	Small Commercial Vapor Action Level
PCE	42	180
TCE	2.1	8.8

Sub-slab vapor		
Analyte	Residential Vapor Risk Screening Level	Small Commercial Vapor Risk Screening Level
PCE	1,400	5,800
TCE	70	290

- Note:
- Bolded and orange shaded values exceed the Small Commercial Vapor Risk Screening Level
 - Bolded and blue shaded values exceed the Residential Vapor Risk Screening Level
 - All results reported in micrograms per cubic meter (ug/m³)
 - Bold values equal or exceed laboratory detection limits
 - PCE = Tetrachloroethene
 - TCE = Trichloroethene
 - CVOCs = Chlorinated Volatile Organic Compounds
 - ND = Not detected
 - Only PCE and TCE concentrations are reported on this figure

- Area where residual contamination poses a future vapor intrusion risk
- Extent of CVOC groundwater impacts above enforcement standards (dashed where inferred)
- Extent of CVOC concentrations exceeding the soil to groundwater RCL (dashed where inferred)



SUB-SLAB VAPOR AND INDOOR AIR SAMPLE RESULTS

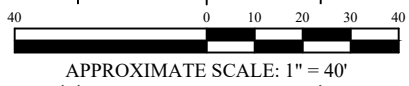
Martino's Cleaners
3917 52nd Street
Kenosha, Wisconsin

Date:	4/22/21
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6190-1632



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Figure	B.4.a.2
Project	6190





September 8, 2021

Jane Pfeiffer
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr Drive
Milwaukee, WI 53212

**Re: Vapor Mitigation System Decommissioning Report – 3909 52nd Street
Martino’s Master Dry Cleaners
BRRTS# 02-30-552186**

Dear Ms. Pfeiffer,

In accordance with Appendix F of Wisconsin Department of Natural Resources (WDNR) publication RR-800, and in response to your request in the Closure Not Recommended letter dated August 4, 2021, EnviroForensics is submitting this Decommissioning Report (Report) for the sub-slab depressurization system (SSDS) installed at 3909 52nd Street in Kenosha, Wisconsin. This building adjoins the Martino’s Master Dry Cleaners facility located at 3917 52nd Street (the Site).

Following the completion of remedial activities at the Site, the vapor intrusion pathway was re-assessed in anticipation of a case closure request. The re-assessment was conducted to determine whether remediation addressed the source of vapors identified during the Site investigation. If so, case closure could be completed without the need for vapor mitigation as a continuing obligation.

Decommissioning Activities

EnviroForensics notified WDNR of initiating decommissioning activities in a letter dated July 8, 2019. The SSDS fan was shut down on July 9, 2019. Four (4) sub-slab vapor sampling events were performed on August 1, 2019, November 11, 2019, February 11, 2020, and August 26, 2021, respectively, spanning approximately one year. Two (2) sub-slab vapor samples were collected during the first three (3) sampling events from permanent Vapor Pin® sampling ports installed in the floor. On August 26, 2021, a vapor sample was collected from only one of the ports. The sampling port locations are shown on **Figure 1**.

The samples were designated 6190-SSV-1 and 6190-SSV-1A, respectively. The samples were collected in 1-liter vacuum canisters fitted with regulators to restrict flow to a rate of approximately 200 mL per minute. The water dam procedure and pressure testing of the sample train were conducted prior to collection of each sample for quality assurance purposes.

Document: 6190-1821

Results

The sub-slab vapor sample results associated with decommissioning are summarized on **Table 1** (attached). Tetrachloroethene (PCE) was detected in six (6) of the seven (7) samples at concentrations below the vapor risk screening level (VRSL) for small commercial buildings of 5,800 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Trichloroethene (TCE) was detected in three (3) of the six (6) samples. The TCE concentration in the first sample collected from port SSV-1 exceeded the VRSL; however, the concentrations in the subsequent samples, including the sample collected in the middle of the heating season, were well below the VRSL. No other contaminants of concern were detected in the vapor samples.

Conclusions

The concentrations of the contaminants of concern in sub-slab vapor were below VRSLs for three (3) consecutive sampling events. These data demonstrate that the remedial actions implemented at the Site have reduced the risk of exposure via the vapor intrusion pathway at the adjoining 3909 52nd Street building. Active vapor mitigation is no longer needed.

Upon approval of the case closure request, EnviroForensics will remove the SSDS system components and abandon the suction points and vacuum monitoring points as part of Site restoration activities.

If you need any additional information, please don't hesitate to contact me at 262-745-5054 or bkappen@enviroforensics.com.

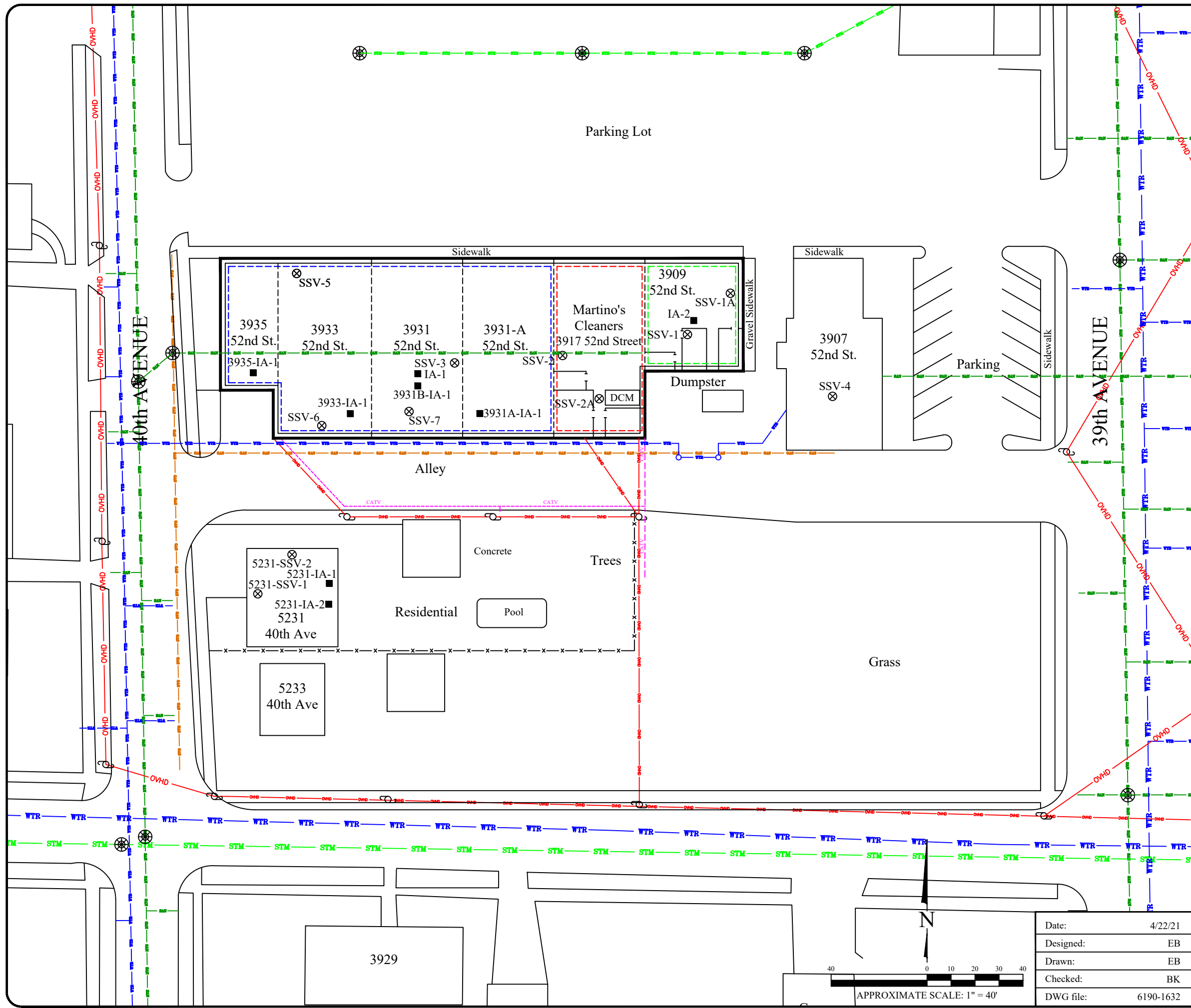
Regards,
EnviroForensics, LLC

A handwritten signature in blue ink, appearing to read "Brian Kappen".

Brian Kappen, PG
Project Manager

Attachments:

Figure 1 – Sub-Slab Vapor and Indoor Air Sample Locations
Table 1 – Summary of Decommissioning Sub-Slab Vapor Sample Analytical Results

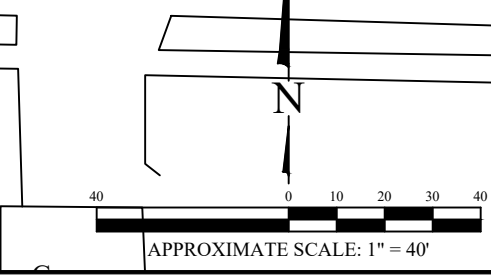


Legend

- SSV-1 ⊗ Sub-slab vapor sample location
- IA-1 ■ Indoor air sample location
- GAS — Underground gas utility line
- WTR — Underground water utility line
- SAN — Underground sanitary utility line
- STM — Underground storm utility line
- OVHD — Over head electrical utility line
- CATV — Underground cable television utility line
- Slab foundation #1
- - - Slab foundation #2
- · - Slab foundation #3
- x - x - x - Fence line

SUB-SLAB VAPOR AND INDOOR AIR SAMPLE LOCATIONS

Martino's Cleaners
 3917 52nd Street
 Kenosha, Wisconsin



Date:	4/22/21
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6190-1632



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 EnviroForensics.com

Figure	1
Project	6190

TABLE 1
SUMMARY OF DECOMMISSIONING SUB-SLAB VAPOR SAMPLE ANALYTICAL RESULTS
 Martino's Master Drycleaners
 3917 52nd Street, Kenosha, Wisconsin

Sample Address	Sample Identification	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Small Commercial Vapor Risk Screening Level¹			5,800	290	NE	5,800	930
3909 52nd St	6190-SSV-1	8/1/2019	4,580	724	<198	<396	<12.8
		11/11/2019	936	56.6	<19.8	<39.6	<1.28
		2/11/2020	956	70.2	<19.8	<39.6	<1.28
		8/26/2021	699	27.9	<198	<396	<12.8
	6190-SSV-1A	8/1/2019	<31.9	<10.7	<198	<396	<12.8
		11/11/2019	8.61	<1.07	<19.8	<39.6	<1.28
		2/11/2020	17.5	<1.07	<19.8	<39.6	<1.28

Notes:

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

All concentrations reported in units in micrograms per cubic meter = µg/m³

Only detected compounds are listed

Bolded values are above method detection limits

Bolded and orange shaded values exceed the Vapor Risk Screening Level

NE = Not Established



DOLLAR

silonite

GREEN



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

Mr. Brian Kappen
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

September 3, 2021

EnvisionAir Project Number: 2021-429
Client Project Name: 6190

Dear Mr. Kappen,

Please find the attached analytical report for the samples received August 27, 2021. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

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

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

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is written in a cursive, flowing style.

David Norris
Project Manager
EnvisionAir, LLC



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

Client Name: ENVIROFORENSICS
Project ID: 6190
Client Project Manager: BRIAN KAPPEN
EnvisionAir Project Number: 2021-429

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Canister Pressure / Vacuum</u>		<u>Lab</u>
			<u>Date</u>	<u>Time</u>					<u>Initial Field</u>	<u>Final Field</u>	
			<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Collected:</u>	<u>Received:</u>	<u>Received:</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>	<u>(in. Hg)</u>
21-2108	6190-SSV-1	A	8/26/21	10:20			8/27/21	14:15	-29	-3	-3
21-2109	6190-SSG-ST	A	8/26/21	9:40			8/27/21	14:15	-28	-3	-3
21-2110	6190-SSG-MH	A	8/26/21	11:20			8/27/21	14:15	-30	-3	-3



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

Client Name: ENVIROFORENSICS

Project ID: 6190

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2021-429

Analytical Method: TO-15
Analytical Batch: 082621AIR

Client Sample ID: 6190-SSV-1

EnvisionAir Sample Number: 21-2108
Sample Matrix: AIR

Sample Collection START Date/Time: 8/26/21 10:20

Sample Collection END Date/Time:

Sample Received Date/Time: 8/27/21 14:15

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	699	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	27.9	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	8-27-21/22:25		
Analyst Initials	tjg		



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

Client Name: ENVIROFORENSICS

Project ID: 6190

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2021-429

Analytical Method: TO-15
Analytical Batch: 082621AIR

Client Sample ID: 6190-SSG-ST

EnvisionAir Sample Number: 21-2109
Sample Matrix: AIR

Sample Collection START Date/Time: 8/26/21 9:40
Sample Collection END Date/Time:
Sample Received Date/Time: 8/27/21 14:15

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	8-27-21/23:04		
Analyst Initials	tjg		



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

Client Name: ENVIROFORENSICS

Project ID: 6190

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2021-429

Analytical Method: TO-15
Analytical Batch: 082621AIR

Client Sample ID: 6190-SSG-MH

EnvisionAir Sample Number: 21-2110
Sample Matrix: AIR

Sample Collection START Date/Time: 8/26/21 11:20

Sample Collection END Date/Time:

Sample Received Date/Time: 8/27/21 14:15

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	< 31.9	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	107%		
Analysis Date/Time:	8-27-21/23:45		
Analyst Initials	tjg		

TO-15 Quality Control Data

EnvisionAir Batch Number: 082621AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	8-27-21/12:11		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	9.52	9.72	10	95%	97%	2.1%	
trans-1,2-Dichloroethene	9.95	10.9	10	100%	109%	9.1%	
cis-1,2-Dichloroethene	9.64	11.7	10	96%	117%	19.3%	
Trichloroethene	10.5	10	10	105%	100%	4.9%	
Tetrachloroethene	10.7	10.9	10	107%	109%	1.9%	
4-bromofluorobenzene (surrogate)	101%	106%					
Analysis Date/Time:	8-27-21/09:57	8-27-21/10:45					
Analyst Initials	tjg	tjg					



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

Flag Number

Comments

CHAIN OF CUSTODY RECORD

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

Client: Enviro Forensics	P.O. Number: 2021-0514
Report Address: bkappen@enviroforensics.com	Project Name or Number: 6190
Report To: B. Kappen	Sampled by: B. Kappen
Phone: 262-745-5054	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address: accounts payable @enviroforensics.com	Reporting Units needed: (circle) ug/m³ mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List (Specify in notes)



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

www.envision-air.com

Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>				Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
6190-55V-1	1LC	8/24/21	1020						83948	0092	-29	-3	-3	21-2108
6190-55G-ST	1LC	8/26/21	940						2096	0121	-28	-3	-3	21-2109
6190-55G-MH	1LC	8/26/21	1120						83739	0048	-30	-3	-3	21-2110

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	8/26/21	1700	Fed Ex	8/26/21	1700
			Y. Chaulston	8/27/21	14:15