From:	Brian Kappen <bkappen@enviroforensics.com></bkappen@enviroforensics.com>
Sent:	Tuesday, October 20, 2020 11:13 AM
То:	Michalets, Linda M - DNR
Cc:	Wayne Fassbender
Subject:	RE: One Hour Martinizing closure questions
Attachments:	F3 Diagnostic Testing Layout and Results.pdf; OHM-Hampton SSDS OMM
	Plan.pdf; T2 - Diagnostic test data.pdf; Table A.4.a-Soil Gas Results.pdf;
	Table A.4.b-Sub-slab Vapor Results.pdf; Table A.4.c-Indoor Air Results.pdf;
	Fig.B.4.a Vapor intrusion map_Revised.pdf

Linda,

In response to your requests for revisions to Case Closure documents, the following are attached:

- Tables A.4.a, A.4.b and A.4.c now showing residential screening levels and exceedances
- Figure B.4.a now showing residential screening levels and exceedances
- The O&M Plan for the SSDS to be included in Attachment D
- Revised Table 2 and Figure 3 from the SSDS Installation Report

I believe this addressed all of your requests to date. Please reply if anything is missing.

Regards,

Brian Kappen, Senior Geologist/ Project Manager **EnviroForensics**[®] | N16W23390 Stone Ridge Dr, Suite G, Waukesha, WI 53188 Direct 414.326.4412 | Mobile 262.745.5054 | <u>enviroforensics.com</u>

From: Michalets, Linda M - DNR <<u>Linda.Michalets@wisconsin.gov</u>>
Sent: Monday, October 05, 2020 5:04 PM
To: Wayne Fassbender <<u>wfassbender@enviroforensics.com</u>>
Subject: RE: One Hour Martinizing closure questions

Hi Wayne,

Please include the residential VALs on the indoor air table. This is important for evaluating future vapor risk and building usage. Figure B.4.a should include the residential as well as commercial exceedances.

Thank you for letting me know what report that data was in. Linda

We are committed to service excellence. Visit our survey at <u>http://dnr.wi.gov/customersurvey</u> to evaluate how I did.

Linda Michalets Cell Phone: (414) 435-8010 Linda.Michalets@wisconsin.gov



From: Wayne Fassbender <<u>wfassbender@enviroforensics.com</u>>
Sent: Monday, October 05, 2020 2:33 PM
To: Michalets, Linda M - DNR <<u>Linda.Michalets@wisconsin.gov</u>>
Subject: RE: One Hour Martinizing closure questions

Hi Linda:

We are revising the data per your request below. I am thinking that the residential VRSLs would apply to tables A.4.a (soil gas) and A.4.b (sub-slab vapor). I do not think we need to put the residential standards on the indoor air table A.4.c. Agree? I will revise Figure B.4.a to show the locations of SSV-12 and SSV-13. These samples were collected from the same location as SSV-2 and SSV-3, respectively. The results of the 8/23/18 sampling are contained in the report titled *Vapor Mitigation System Installation Report*, dated April 10, 2019. Also, do we need to revise Figure B.4.a to reflect residential VRSLs?

Wayne P. Fassbender, Senior Project Manager

EnviroForensics[®] | N16W23390 Stone Ridge Dr, Suite G, Waukesha, WI 53188 Direct 414-982-3988 | Mobile 262-490-6472 | <u>enviroforensics.com</u>

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From: Michalets, Linda M - DNR <<u>Linda.Michalets@wisconsin.gov</u>>
Sent: Friday, October 02, 2020 4:11 PM
To: Wayne Fassbender <<u>wfassbender@enviroforensics.com</u>>
Subject: One Hour Martinizing closure questions

Hello Wayne,

I am reviewing the One Hour Martinizing site for closure. Could you please provide me with the following information, which I need to complete my review and accurately convey the site conditions for closure consideration:

Provide revised vapor tables that include residential standards in addition to commercial standards. If concentrations exceed residential standards, closure letters for those properties will include a requirement that they cannot be converted to residential use with prior DNR approval.

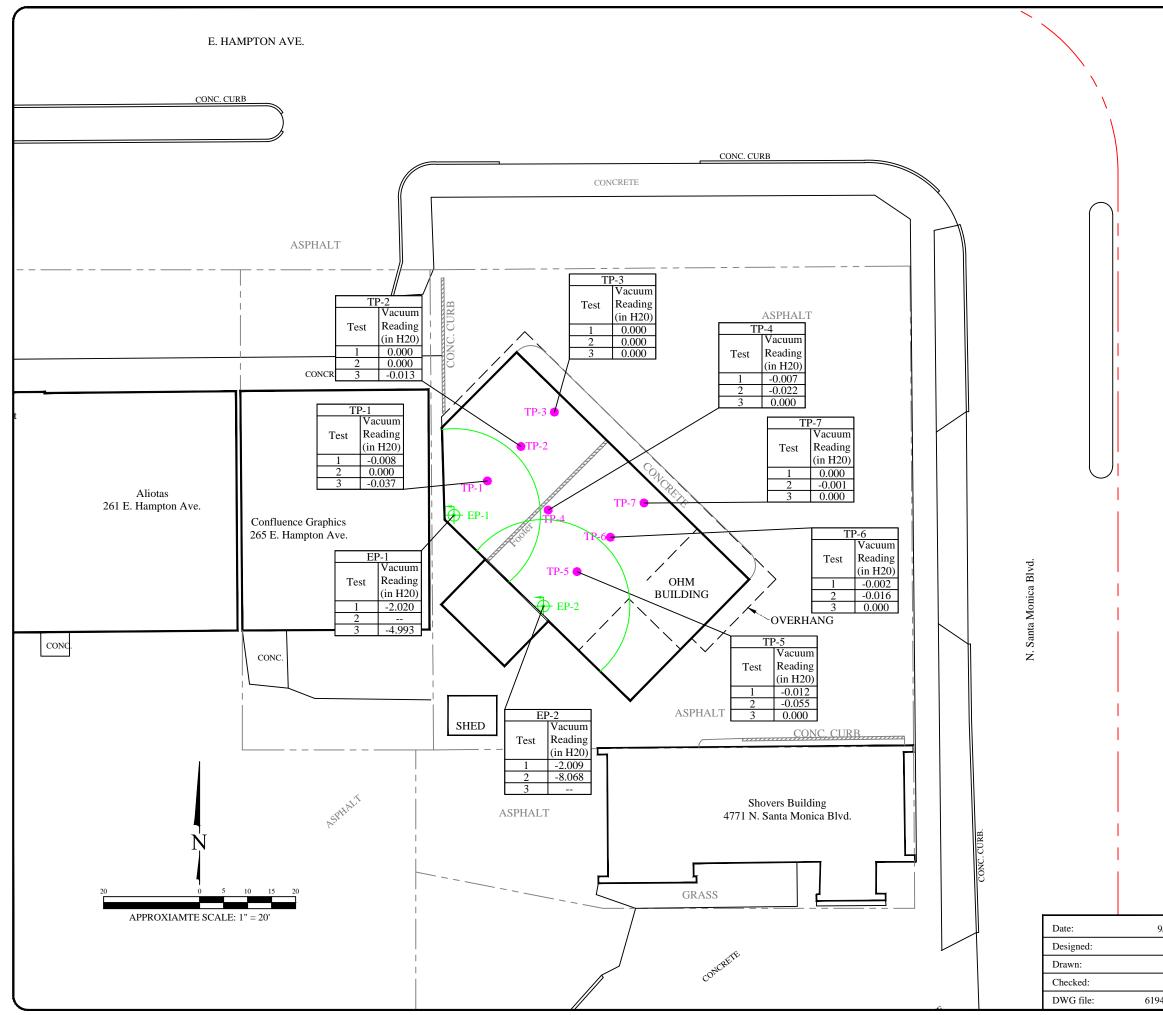
Where were sub-slab samples SSV-12 and SSV-13 collected on the OHM property in 2018? I don't see them on the vapor figure. Were these samples discussed in a previous report? I don't see them in any report in BRRTS. I did not look through the hard copy file that I have here. Let me know what report that would be in.

If you could just email me these tables and figure it would be much appreciated. Thank you, Linda

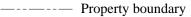
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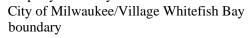
Linda Michalets Cell Phone: (414) 435-8010 Linda.Michalets@wisconsin.gov





Legend





TP-1 🌻

_ _ _

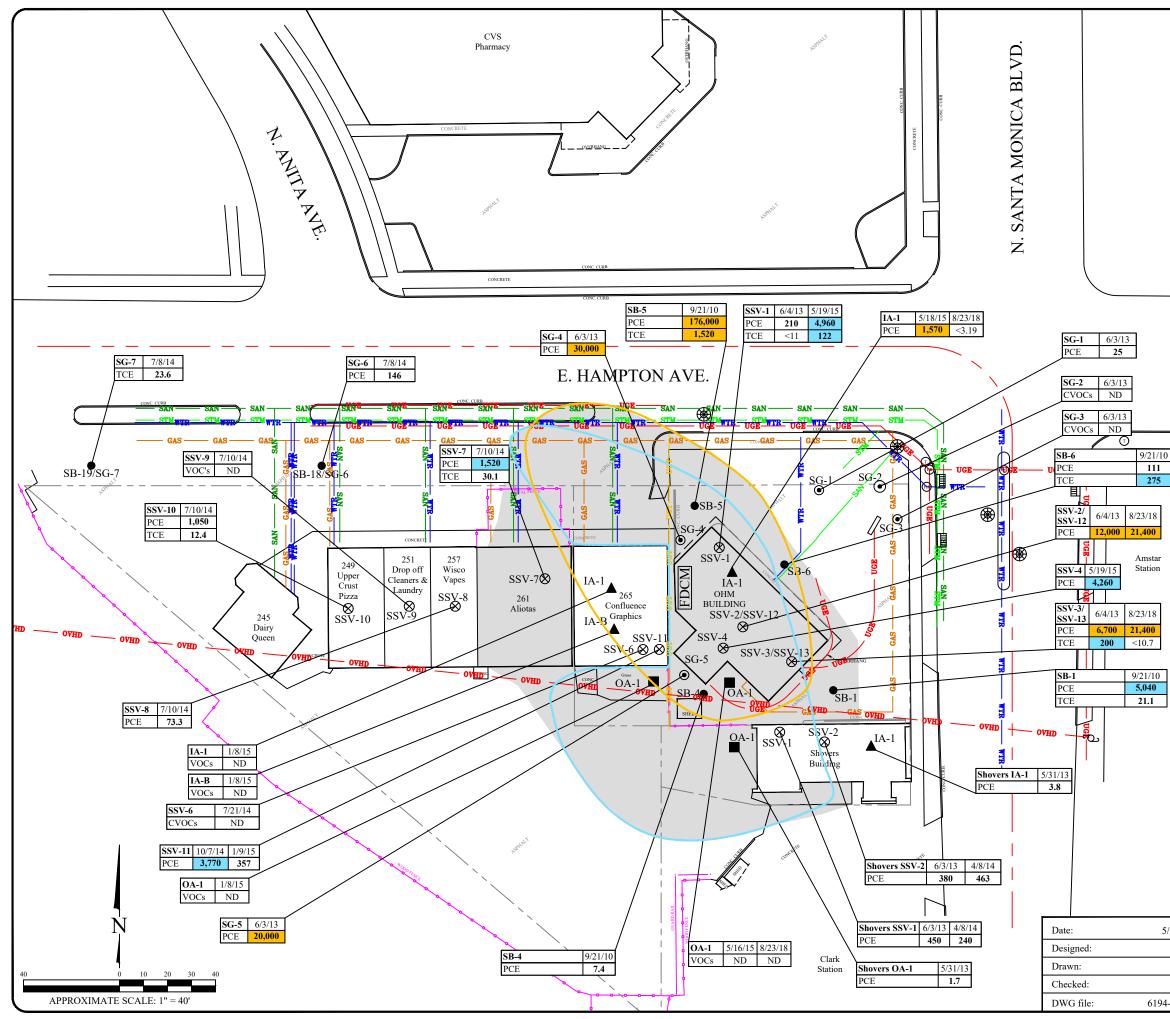
EP-1 **SSDS** Extraction Point Vacuum monitoring point

Radius of influence (-0.004 inH2O)

Notes:

- $\overline{1}$. Test 1 = Vacuum at EP-1 and EP-2
- 2. Test 2 = Vacuum at EP-2 only
- 3. Test 3 = Vacuum at EP-1 only
- 4. inH20 = Inches of water

	DIAGNOSTIC TESTING LAYOUT AND RESULTS				
	One Hour Martinizing				
	285 East Hampton Avenue	2			
	Milwaukee, Wisconsin				
	Willwadkee, Wisconsin				
9/20/18		Figure			
EB	ENVIRO / rensics	3			
KH		5			
BK		Project			
	825 North Capitol Avenue Indianapolis, IN 46204	6194			
4-1107	EnviroForensics.com	01/4			



	Lege	end				
Property boundary City of Milwaukee/Village Whitefish Bay boundary Fence line Underground gas utility line Underground water utility line SAN Underground sanitary utility line Underground storm utility line Underground electrical utility line Underground fiber optic line						
Utility Pole Catch Basin Image: Catch B						
SG-1 ⊙ SSV-1 ⊗	Soil Gas Samı Sub-Slab Vapo		ation			
OA-1 ■ IA-1 ▲ FDCM	Outdoor Air S Indoor Air Sa Former dry cl	-	ne locations			
Analyte	Sub-slab/Shallow Soil gas vapor Small Commercial VRSL	Indoor Air Small Commercial VAL	Sub-slab/Shallow Soil gas vapor Residential	Indoor Air Residential		
PCE	6,000	180	1,400	42		
TCE	290	8.8	70	2.1		

- 1. Bold and shaded values exceed Vapor Risk Screening Levels
- 2. Bold values equal or exceed laboratory detection limits
- 3. All results reported in micrograms per cubic meter (ug/m³)
- 4. NE = Not established
- 5. PCE = Tetrachloroethene
- 6. TCE = Trichloroethene
- 7. VOCs = Volatile Range Organics
- 8. ND = Not detected
- 9. VRSL = Vapor Risk Screening Level
- 10. VAL = Vapor Action Level

Area where residual contamination poses a future vapor intrusion risk

Extent of CVOC in groundwater isocontour above Public Health ES

Extent of CVOC concentrations exceeding the soil RCL

	VAPOR INTRUSION MAP					
	One Hour Martinizing Fac	ility				
	285 East Hampton Avenue					
	Milwaukee, Wisconsin					
5/7/20		Figure				
EB	ENVIRO Frensics	B.4.a				
EB						
WF	005 North Operited Assessments on Justice and its IN 40004	Project				
4-1537	825 North Capitol Avenue Indianapolis, IN 46204 EnviroForensics.com	6194				



VAPOR MITIGATION SYSTEM OPERATION, MAINTENANCE & MONITORING PLAN

ONE HOUR MARTINIZING 285 EAST HAMPTON AVENUE MILWAUKEE, WISCONSIN BRRTS# 02-41-543260

Prepared For:

OHM Holdings, LLC W229N2494 County Road F Waukesha, Wisconsin 53186

Prepared By:

EnviroForensics, LLC N16 W23390 Stone Ridge Drive, Suite G Waukesha, WI 53188 Phone: (262) 290-4001 <u>www.enviroforensics.com</u>

Document: 6194-1185



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3.0	SYSTEM DESIGN AND CONSTRUCTION	2
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	4.2 System Monitoring	2
	4.3 System Maintenance and Repairs	3
	4.4 Notifications	3
5.0	DECOMMISSIONING AND CONTINUING OBLIGATIONS	

FIGURES

Figure 1 Sub-Slab Depressurization System Layout

ATTACHMENTS

- Attachment 1 Fan Specifications and Warranty Information
- Attachment 2 Vapor Mitigation System Inspection and Maintenance Log



1.0 BACKGROUND

A sub-slab depressurization system (SSDS) was installed at 285 East Hampton Avenue in Milwaukee, Wisconsin (Site) to mitigate vapor intrusion risk associated with a tetrachloroethene (PCE) release at the Site. At the time of installation, the property was occupied by a One Hour Martinizing drop-off store and owned by OHM Properties 3 LLC.

The SSDS is designed to depressurize the sub-slab space and prevent vapors from migrating into the building and affecting indoor air quality. The Wisconsin Department of Natural Resources (WDNR) requires that vapor mitigation systems be monitored and maintained to ensure ongoing effectiveness. Proper operation of the SSDS is necessary to prevent exposure to the chemicals of concern via vapor intrusion.

1.1 Site History

The Site was operated as a gasoline service station from 1953 to 1979, and an active dry cleaning facility from 1980 until 2007, when active dry cleaning was discontinued. Several underground storage tanks were removed in the early 1990s, and a remediation system for petroleum contamination operated for several years. Since 2007, the 2,500 square foot, concrete slab-on-grade commercial building has been utilized as a drop off and pick-up location for clothes dry cleaned elsewhere.

2.0 CONTACTS

Property Owner: Brian Cass Address: W229N2494 County Rd F, Waukesha, Wisconsin 53186 Telephone #: 262 521-9710 Email: <u>brian@ohmholdings.com</u>

System Design and Installation: EnviroForensics Address: N16W23390 Stone Ridge Drive, Waukesha, WI 53188 Contact: Brian Kappen/ Wayne Fassbender Contact/Telephone #: 262-290-4001 Email: <u>bkappen@enviroforensics.com</u> or <u>wfassbender@enviroforensics.com</u>

WDNR Project Manager: John Hnat Address: 2300 N. Dr. Martin Luther King Jr. Drive, Milwaukee, Wisconsin Telephone #: 414-263-8644 Email: John.Hnat@wisconsin.gov



3.0 SYSTEM DESIGN AND CONSTRUCTION

EnviroForensics designed the SSDS based on the results of diagnostic testing conducted on September 18, 2018. The system was installed during the week of October 1, 2018. Design and construction details for the SSDS are provided in the April 10, 2019 *Vapor Mitigation System Installation Report*.

The final system configuration is depicted on **Figure 1**. The system is constructed with five (5) suction points connected via 3-inch PVC piping to two (2) RadonAway Model GP501 fans mounted on the exterior of the building. The piping connected to each suction point is equipped with a ball valve for balancing system vacuum, and a u-tube manometer. Low pressure switch alarms are also connected to the system piping.

4.0 SYSTEM OPERATION, MAINTENANCE, AND MONITORING

The Wisconsin Department of Natural Resources (WDNR) has issued guidelines for long-term OM&M of vapor mitigation systems in Appendices D and E of Publication RR-800: *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin.* The guidelines have been adopted and incorporated into this OM&M Plan.

OHM Holdings LLC will be responsible for operation, maintenance, and monitoring (OM&M) of the SSDS until the Site is sold to a new owner, or until the WDNR grants approval for system decommissioning. Any new owner of the Site assumes the responsibility for OM&M of the system.

4.1 System Operation

The two (2) RadonAway GP501 fans are hardwired to dedicated circuit breakers in the electrical panel on the south wall of the building. Operation of the SSDS can be confirmed by inspecting the fan (i.e., checking for noise and vibration) or confirming vacuum in the u-tube manometers. The system is designed and intended to operate continuously. Fans specifications and warranty information are presented in **Attachment 1**.

4.2 System Monitoring

The long-term monitoring procedures are described in the system inspection and maintenance log provided in **Attachment 2**. The recommended monitoring includes an annual inspection of the system fans and discharge points, piping and connections, and floor slab/suction point seals, as well as observing the negative pressure indicated by the u-tube manometers mounted on the piping above each suction point. These activities are required to be conducted <u>annually during</u> the heating season. A summary of acceptable observations is provided in the table below.

2



Parameter Location		Equipment	Acceptable Result	
Pressure	Suction Points EP-1, -2A, -2B, -3, and EP-4	U-tube manometers	1 to 3 in H ₂ O	
System condition	Multiple	Visual inspection	No cracks, gaps, leaks in piping or floor slab	

Note: in H_2O = inches of water

The inspection and maintenance log shall be completed by the person or group responsible for OM&M of the SSDS. The logs shall be kept on file by the environmental consultant and/or the property owner and made available to WDNR upon request.

4.3 System Maintenance and Repairs

The mitigation fans are factory sealed and require no maintenance. In the event that a fan stops operating due to mechanical failure, the fan shall be replaced with an identical model or a fan with the same performance specifications. Replacement of fans should be handled by a mitigation contractor and/or an electrician. Maintenance and repair activities on other components, including piping and floor seals, can be performed by the environmental consultant or building maintenance personnel.

4.4 Notifications

The WDNR shall be notified at least 45 days before any actions are taken which would terminate or interrupt operation of the SSDS for more than one week.

5.0 DECOMMISSIONING AND CONTINUING OBLIGATIONS

The SSDS will be operated until it is no longer needed to prevent vapor intrusion. The WDNR has issued guidelines for SSDS decommissioning in Appendix F of Publication RR-800. A Decommissioning Plan will be prepared, if appropriate. In general, decommissioning will be performed according to the following procedure:

- Provide WDNR a 45-day notice of intent to begin the decommissioning process.
- Re-assess the vapor intrusion pathway in the building:
 - Turn the fan off and wait 2 to 4 weeks;
 - Collect three (3) rounds of sub-slab vapor samples within one (1) year, with two
 (2) sampling events during the heating season; and
 - Re-start the fan if a vapor risk screening level is exceeded.

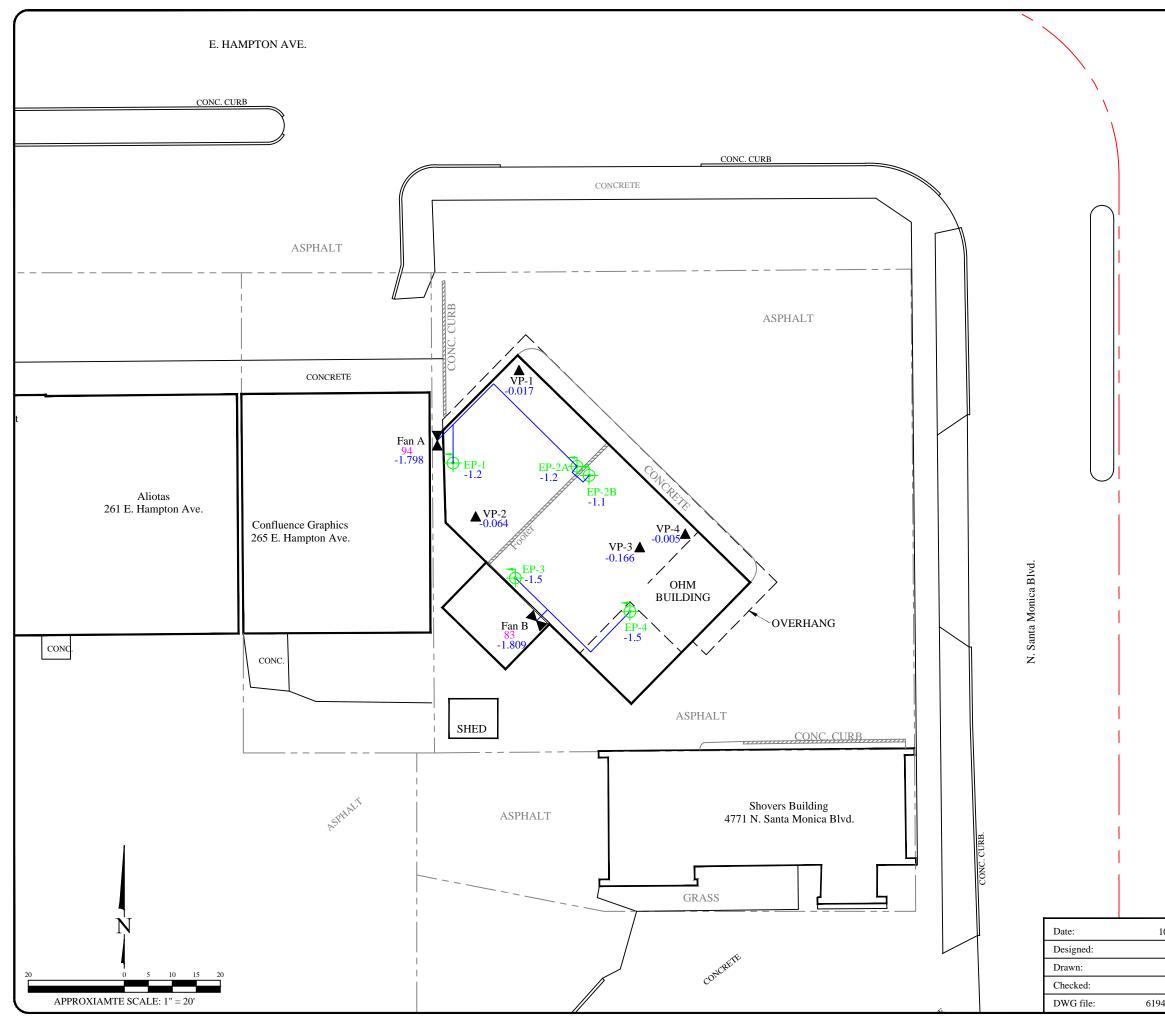


• Submit the sampling data to WDNR with a request for approval to permanently leave the fan off and/or remove the system components from the building.

If the SSDS is necessary to mitigate vapor movement into the building at the time of case closure, there will be a continuing obligation for any owner of the Site to operate and maintain the SSDS post-closure. Post-closure OM&M reporting shall be done using the Continuing Obligations Inspection and Maintenance Log (WDNR Form 4400-305). If subsequent sub-slab vapor sampling data demonstrates that the vapor intrusion risk no longer exists, the owner can submit a Post-Closure Modification to WDNR (with fee) to remove the continuing obligation.



FIGURES



Legend



------ Property boundary ---- City of Milwaukee/Village Whitefish Bay boundary Extraction point Mitigation Fan (GP 501) Sub-Slab Port Piping

	SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT					
	One Hour Martinizing 285 East Hampton Avenue Milwaukee, Wisconsin					
10/9/18		Figure				
EB	ENVIRO Frensics	1				
EB		D				
BK	825 North Capitol Avenue Indianapolis, IN 46204	Project				
94-1187	EnviroForensics.com	6194				



ATTACHMENT 1

Fan Specifications and Warranty Information





RPc, GPc, XPc, XR Series Installation Instructions

IN096 Rev A 0718

3 Saber Way, Ward Hill, MA 01835 | radonaway.com



- DO NOT CONNECT POWER SUPPLY UNTIL FAN IS COMPLETELY INSTALLED. MAKE SURE ELECTRICAL SERVICE TO FAN IS LOCKED IN "OFF" POSITION. DISCONNECT POWER BEFORE SERVICING FAN.
- 1. **WARNING!** For General Ventilating Use Only. Do Not Use to Exhaust Hazardous, Corrosive or Explosive Materials, Gases or Vapors. See Vapor Intrusion Application Note #AN001 for important information on VI Applications. RadonAway.com/vapor-intrusion
- 2. **NOTE:** Fan is suitable for use with solid state speed controls; however, use of speed controls is not generally recommended.
- 2. WARNING! Check voltage at the fan to insure it corresponds with nameplate.
- 3. **WARNING!** Normal operation of this device may affect the combustion airflow needed for safe operation of fuel burning equipment. Check for possible backdraft conditions on all combustion devices after installation.
- 4. **NOTICE!** There are no user serviceable parts located inside the fan unit. **Do NOT attempt to open.** Return unit to the factory. (See Warranty, p. 8, for details.)
- 5. **WARNING!** Do not leave fan unit installed on system piping without electrical power for more than 48 hours. Fan failure could result from this non-operational storage.
- 6. **WARNING!** TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:
 - a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer. (See p. 8.)
 - b) Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
 - c) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire rated construction.
 - d) Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturers' guidelines and safety standards such as those published by any National Fire Protection Association, and the American Society for Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and the local code authorities.
 - e) When cutting or drilling into a wall or ceiling, do not damage electrical wiring and other hidden utilities.
 - f) Ducted fans must always be vented to outdoors.
 - g) If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) protected branch circuit.



Fan Installation & Operating Instructions

 RPc Series
 GPc Series
 XPc / XR Series

 RP140c
 P/N 23029-1
 GP301c
 P/N 23006-1
 XP201c
 P/N 23011-1

 RP145c
 P/N 23030-1
 GP501c
 P/N 23005-1
 XR261
 P/N 23019-1

 RP260c
 P/N 23032-1
 RP265c
 P/N 23033-1
 P/N 23033-1

1.0 SYSTEM DESIGN CONSIDERATIONS

1.1 INTRODUCTION

The RPc, GPc, XPc and XR Series Radon Fans are intended for use by trained, professional, certified/licensed radon mitigators. The purpose of these instructions is to provide additional guidance for the most effective use of RPc, GPc, XPc and XR Series Fans. These instructions should be considered supplemental to EPA/radon industry standard practices, state and local building codes and regulations. In the event of a conflict, those codes, practices and regulations take precedence over these instructions.

1.2 FAN SEALING

The RPc, GPc, XPc and XR Series Fans are factory sealed; no additional caulk or other materials are required to inhibit air leakage.

1.3 ENVIRONMENTALS

The RPc, GPc, XPc and XR Series Fans are designed to perform year-round in all but the harshest climates without additional concern for temperature or weather. For installations in an area of severe cold weather, please contact RadonAway for assistance. When not in operation, the fan should be stored in an area where the temperature is never less than 32 degrees F or more than 100 degrees F.

1.4 ACOUSTICS

The RPc, GPc, XPc and XR Series Fans, when installed properly, operate with little or no noticeable noise to the building occupants. The velocity of the outgoing air should be considered in the overall system design. In some cases the "rushing" sound of the outlet air may be disturbing. In these instances, the use of a RadonAway Exhaust Muffler is recommended.

(To ensure quiet operation of inline and remote fans, each fan shall be installed using sound attenuation techniques appropriate for the installation. For bathroom and general ventilation applications, at least 8 feet of insulated flexible duct shall be installed between the exhaust or supply grille(s) and the fan(s). RPc, GPc, XPc and XR Series Fans are not suitable for kitchen range hood remote ventilation applications.)

1.5 GROUND WATER

In the event that a temporary high water table results in water at or above slab level, water may be drawn into the riser pipes, thus blocking air flow to the RPc, GPc, XPc and XR Series Fan. The lack of cooling air may result in the fan cycling on and off as the internal temperature rises above the thermal cutoff. Should this condition arise, it is recommended that the fan be turned off until the water recedes, allowing for return to normal operation.

1.6 SLAB COVERAGE

The RPc, GPc, XPc and XR Series Fans can provide coverage up to 2000+ sq. ft. per slab penetration. This will primarily depend on the sub-slab material in any particular installation. In general, the tighter the material, the smaller the area covered per penetration. Appropriate selection of the RPc, GPc, XPc and XR Series Fan best suited for the sub-slab material can improve the slab coverage. The RPc, GPc, XPc and XR Series have a wide range of models to choose from to cover a wide range of sub-slab materials. The RP140c and 145c are best suited for general purpose use. The RP260c can be used where additional airflow is required, and the RP265c is best suited for large slab, high airflow applications. Additional suction points can be added as required. It is recommended that a small pit (5 to 10 gallons in size) be created below the slab at each suction hole.

1.7 CONDENSATION & DRAINAGE

Condensation is formed in the piping of a mitigation system when the air in the piping is chilled below its dew point. This can occur at points where the system piping goes through unheated space such as an attic, garage or outside. The system design must provide a means for water to drain back to a slab hole to remove the condensation. The RPc, GPc, XPc and XR Series Fan MUST be mounted vertically plumb and level, with the outlet pointing up for proper drainage through the fan. Avoid mounting the fan in any orientation that will allow water to accumulate inside the fan housing. The RPc, GPc, XPc and XR Series Fans are NOT suitable for underground burial.

For RPc, GPc, XPc and XR Series Fan piping, the following table provides the minimum recommended pipe diameter and pitch under several system conditions.

Pipe	Minimun				
Diameter	@25 CFM	@50 CFM	@100 CFM	В	
4"	1/8"	1/4"	3/8"	RIS	
3"	1/4"	3/8"	1 1/2"		RUN

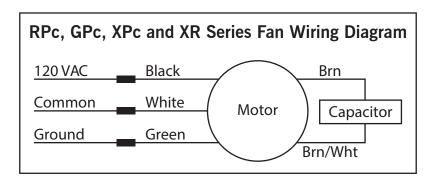
See p. 7 for detailed specifications.

1.8 SYSTEM MONITOR & LABEL

A System Monitor, such as a manometer (P/N 50017) or audible alarm (P/N 28001-2, 28001-4 or 28421), is required to notify the occupants of a fan system malfunction. A System Label (provided with Manometer P/N 50017) with instructions for contacting the installing contractor for service and identifying the necessity for regular radon tests to be conducted by the building occupants must be conspicuously placed in a location where the occupants frequent and can see the label.

1.9 ELECTRICAL WIRING

The RPc, GPc, XPc and XR Series Fans operate on standard 120V, 60Hz AC. All wiring must be performed in accordance with National Fire Protection (NFPA) National Electrical Code, Standard #70, current edition, for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician. Outdoor installations require the use of a UL Listed watertight conduit. Ensure that all exterior electrical boxes are outdoor rated and properly sealed to prevent water penetration into the box. A means, such as a weep hole, is recommended to drain the box.



1.10 SPEED CONTROLS

The RPc, GPc, XPc and XR Series Fans are rated for use with electronic speed controls; however, speed controls are generally not recommended. If used, the recommended speed control is Pass & Seymour Solid State Speed Control (Cat. No. 94601-1).

2.0 INSTALLATION

The RPc, GPc, XPc and XR Series Fans can be mounted indoors or outdoors. (It is suggested that EPA and radon mitigation standards recommendations be followed in choosing the fan location.) The GPc fans have an integrated mounting bracket; RPc, XPc and XR Series Fans may be mounted directly on the system piping or fastened to a supporting structure by means of an optional mounting bracket.

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

2.1 MOUNTING

Mount the RPc, GPc, XPc and XR Series Fan vertically with outlet up. Insure the unit is plumb and level. When mounting directly on the system piping assure that the fan does not contact any building surface to avoid vibration noise.

2.2 MOUNTING BRACKET (optional)

The RPc, XPc and XR Series Fans may be optionally secured with the RadonAway P/N 25007 mounting bracket. Foam or rubber grommets may also be used between the bracket and mounting surface for vibration isolation.

2.3 SYSTEM PIPING

Complete piping run, using flexible couplings as a means of disconnect for servicing the unit and for vibration isolation. As the fan is typically outside of the building thermal boundary and is venting to the outside, installation of insulation around the fan is not required.

2.4 ELECTRICAL CONNECTION

Connect wiring with wire nuts provided, observing proper connections (See Section 1.9). Note that the fan is not intended for connection to rigid metal conduit.

2.5 VENT MUFFLER (optional)

Install the muffler assembly in the selected location in the outlet ducting. Solvent weld all connections. The muffler is normally installed at the end of the vent pipe.

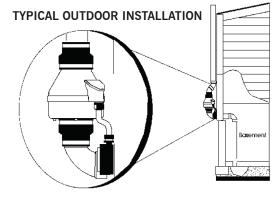
2.6 OPERATION CHECKS & ANNUAL SYSTEM MAINTENANCE

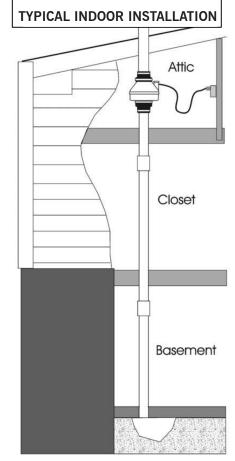
Verify all connections are tight and leak-free.

Ensure the RPc, GPc, XPc and XR Series Fan and all ducting are **secure and vibration-free**.

Verify system vacuum pressure with manometer. Insure vacuum pressure is within normal operating range and less than the maximum recommended operating pressure. (Based on sea-level operation, at higher altitudes reduce by about 4% per 1000 feet) (Further reduce Maximum Operating Pressure by 10% for High Temperature environments.) See Product Specifications. If this is exceeded, increase the number of suction points.

Verify Radon levels by testing to EPA Protocol and applicable testing standards.





THE FOLLOWING CHARTS SHOW THE PERFORMANCE OF THE RPc, GPc, XPc and XR SERIES FANS

Typical CFM Vs. Static Pressure "WC									
Model	0"	.25"	.5"	.75"	1.0"	1.25"	1.5"	1.75"	2.0"
RP140c	135	103	70	14	-	-	-	-	
RP145c	166	146	126	104	82	61	41	21	3
RP260c	251	209	157	117	70	26	-	-	-
RP265c	334	291	247	210	176	142	116	87	52

RPc Series Product Specifications

Model	Power Consumption 120VAC, 60Hz, 1.5 Amp Maximum	Maximum Recommended Operation Pressure* (Sea Level Operation)**
RP140c	15 - 21 watts	0.7" WC
RP145c	41 - 72 watts	1.7" WC
RP260c	47-65 watts	1.3" WC
RP265c	91-129 watts	2.2" WC

*Reduce by 10% for High Temperature Operation **Reduce by 4% per 1000 ft. of altitude.

Model	Size	Weight	Inlet/Outlet	L.2
RP140c	8.5"H x 9.7" Dia.	5.5 lbs	4.5"OD (4.0" PVC Sched 40 size compatible)	25
RP145c	8.5"H x 9.7" Dia.	5.5 lbs	4,5" OD	15
RP260c	8.6"H x 11.75" Dia.	5.5 lbs	6.0" OD	48
RP265c	8.6"H x 11.75" Dia.	6.5 lbs	6.0" OD	30

L.2 = Estimated Equivalent Length of Rigid Metal Ducting resulting in .2" WC pressure loss for Duct Size listed. Longer Equivalent Lengths can be accommodated at Flows Lower than that at .2" WC pressure loss (see CFM Vs Static Pressure "WC Table).

Typical CFM Vs. Static Pressure "WC						
0".5" 1.0" 1.5" 1.75" 2.0"						
XP201c	112	95	70	40	-	-
XR261	217	149	87	27	-	-

Model	Power Consumption 120VAC, 60Hz, 1.5 Amp Maximum	Maximum Recommended Operation Pressure* (Sea Level Operation)**
XP201c	45 - 66 watts	1.7" WC
XR261	67 - 117 watts	1.6" WC

*Reduce by 10% for High Temperature Operation **Reduce by 4% per 1000 ft. of altitude.

Model	Size	Weight	Inlet/Outlet
XP201c	9.5"H x 8.5" Dia.	6 lbs	4.5" OD
XR261	9.5"H x 8.5" Dia.	7 lbs	6" OD

Typical CFM Vs. Static Pressure "WC							
1.0" 1.5" 2.0" 2.5" 3.0" 3.5" 4.0"							
GP301c	64	54	41	4	-	-	-
GP501c	-	-	66	58	50	27	4

GPc Series Product Specifications

Model	Power Consumption 120VAC, 60Hz, 1.5 Amp Maximum	Maximum Recommended Operation Pressure* (Sea Level Operation)**
GP301c	56-100 watts	2.3" WC
GP501c	68 - 146 watts	3.8" WC

*Reduce by 10% for High Temperature Operation **Reduce by 4% per 1000 ft. of altitude.

Model	Size	Weight	Inlet/Outlet
GP301c	13"H x 12.5" Dia.	12 lbs	3.5" OD
GP501c	13"H x 12.5" Dia.	12 lbs	3.5" OD

RPc, XPc, XR and GPc Series Additional Specifications

Model	Recommended Duct	PVC Pipe Mounting	Thermal Cutout	Insulation Class	
RP140c		Mount on the duct pipe or with	130°C/266°F	Class B Insulation	
RP145c	3" or 4" Schedule 20/40 PVC	optional mounting bracket.	130°C/266°F	Class F Insulation	
RP260c		For Ventilation: 4", 6" or 8" Rigid	150°C/302°F		
RP265c		or Flexible Ducting.	150°C/302°F		
XP201c	3" or 4" Schedule	Fan may be mounted on the duct	120°C/248°F	Class B Insulation	
XR261	20/40 PVC	pipe or with integral flanges.	120 C/240 F	CIASS D INSUIATION	
GP301c	3" or 4" Schedule	Fan may be mounted on the duct	120°C/248°F	Close D Insulation	
GP501c	20/40 PVC	pipe or with integral flanges.	120 0/248°F	Class B Insulation	

Continuous Duty 3000 RPM Thermally Protected RPc, GPc Residential and Commercial XPc, XR Residential Only Rated for Indoor or Outdoor Use

> LISTED Electric Fan



Conforms to UL STD. 507

Certified to CAN/CSA STD. C22.2 No.113

IMPORTANT INSTRUCTIONS TO INSTALLER

Inspect the RadonAway® RPc, GPc, XPc and XR Series Fan for shipping damage within 15 days of receipt. Notify

RadonAway of any damages immediately. RadonAway is not responsible for damages incurred during shipping.

However, for your benefit, RadonAway does insure shipments.

There are no user serviceable parts inside the fan. **Do not attempt to open the housing.** Return unit to factory. (See Warranty below).

Install the RPc, GPc, XPc and XR Series Fan in accordance with all EPA, ANSI/AARST standard practices, and state and local building codes and regulations.

Provide a copy of this instruction or comparable radon system and testing information to the building occupants after completing system installation.

Warranty

RadonAway[®] warrants that the RPc, GPc, XPc and XR Series Fan (the "Fan") will be free from defects in materials and workmanship for a period of 12 months from the date of purchase or 18 months from the date of manufacture, whichever is sooner (the "Warranty Term").

RadonAway[®] will replace any fan which fails due to defects in materials or workmanship during the Warranty Term. This Warranty is contingent on installation of the Fan in accordance with the instructions provided. This Warranty does not apply where any repairs or alterations have been made or attempted by others, or if the unit has been abused or misused. Warranty does not cover damage in shipment unless the damage is due to the negligence of RadonAway[®].

The Fan must be returned (at Owner's cost) to the RadonAway[®] factory. Any Fan returned to the factory will be discarded unless the Owner provides specific instructions along with the Fan when it is returned regardless of whether or not the Fan is actually replaced under this warranty. Proof of purchase must be supplied upon request for service under this Warranty.

5-YEAR EXTENDED WARRANTY WITH PROFESSIONAL INSTALLATION.

RadonAway[®] will extend the Warranty Term of the fan to 60 months (5 years) from date of purchase or 66 months from date of manufacture, whichever is sooner, provided that the fan is installed by a professional radon mitigation contractor. Proof of purchase and/or proof of professional installation may be required for service under this warranty. No extended warranty is offered outside the Continental United States and Canada beyond the standard 12 months from the date of purchase or18 months from the date of manufacture, whichever is sooner.

RadonAway® is not responsible for installation, removal or delivery costs associated with this Warranty.

LIMITATION OF WARRANTY

EXCEPT AS STATED ABOVE, THE RPc, GPc, XPc and XR SERIES FANS ARE PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULARPURPOSE.

IN NO EVENT SHALL RADONAWAY BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR RELATING TO, THE FAN OR THE PERFORMANCE THEREOF. RADONAWAY'S AGGREGATE LIABILITY HEREUNDER SHALL NOT IN ANY EVENT EXCEED THE AMOUNT OF THE PURCHASE PRICE OF SAID PRODUCT. THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT, TO THE EXTENT THE SAME DOES NOT MEET WITH RADONAWAY'S WARRANTY AS PROVIDED ABOVE.

For service under this Warranty, contact RadonAway for a Return Material Authorization (RMA) number and shipping information. No returns can be accepted without an RMA. If factory return is required, the customer assumes all shipping costs, including insurance, to and from factory.

RadonAway[®] 3 Saber Way Ward Hill, MA 01835 USA TEL (978) 521-3703 FAX (978) 521-3964 Email to: Returns@RadonAway.com

Record the following information for your records:

Serial Number:

Purchase Date:



ATTACHMENT 2

Vapor Mitigation System Inspection and Maintenance Log

VAPOR MITIGATION SYSTEM INSPECTION AND MAINTENANCE LOG ONE HOUR MARTINIZING, MILWAUKEE, WISCONSIN

SYSTEM COMPONENT						
NAME	РНОТО	FUNCTION	CHECK	NORMAL OBSERVATION	POSSIBLE REPAIR	DATE
		Fan creates a vacuum and lowers pressure below foundation.	Fan Operation	Fan is on Fan mounted outside and secure	Fan may need to be replaced every 15 to 20 years. Replacement fan to have similar	
Fan		The fan also removes soil gasses from below foundation for discharge to atmosphere.	Fan Location Motor Noise	Fan motor is quiet (loud motor may indicate a problem)	specifications as original with respect to flow and vacuum.	
					Fan Type = RadonAway GP501	
Suction Point with		Suction Point : Soil gases are collected in a pit below the foundation, and tight seal prevents soil gas from entering the building.	Suction Point Seal	Seal is air tight around pipe penetration.	Suction point seal or vent pipe may need to be replaced in cracks or leaks appear.	
Vent Pipe		Vent Pipe: Pipe conveys the vacuum from the fan, and collects soil gases for discharge to the atmosphere.	Vent Pipe Condition	Vent pipe is connected to fan and has not cracked.	Have professional test pressures if pipes are modified or cracks appear.	
Manometer or	ssure	Measures differential pressure between vacuum side of vent pipe and indoor	n Liquid Level in Manometer	Liquid level in manometer is between 1 and 3 in H_20	A change in liquid level indicates a change in the vacuum below the foundation. This could be caused by fan failure, vent pipe	
Differential Pressure Gauge		space. This measurement confirms the fan is creating a vacuum.			blockage, shallow water below foundation, or other conditions.	
					Troubleshoot or hire professional to identify the cause and repair if needed.	
	T			Vent pipe remains connected to fan.	Vent pipe may require replacement, or cleaning to remove ice or debris.	
Outdoor Vent Pipe		Pipe carries soil gas outside and vents	Vent Pipe Condition	End of pipe free from obstructions.		
		it to the atmosphere.	Vent Pipe Location	The exhaust is more than 15 feet from windows and air intakes.	Have professional test pressures if pipes are modified or cracks appear.	
				No penetrating cracks or holes in foundation.	Seal cracks or other penetrations as you would to prevent water from entering.	
Foundation Floor	and the second s	Foundation is a barrier that minimizes soil gas entry into building.	Foundation Condition Foundation Footprint		If building floor plan has changed, contact a	
		son gas endy into bunding.	Foundation Footprint	No alterations or additions to building foundation.	evaluate if modifications to the mitigation system are necessary.	
				Pin is sealed and capped when not in	Repair or replace the seal and cover as	
Voner Din	0	This is a sample port to measure	Pin Seal/Cap	use. A manometer can be connected to the	needed.	
Vapor Pin	. (2	vacuum or collect soil gas sample(s) if needed.	Pin Condition	vapor pin to check sub-slab vacuum	Permanently seal hole if vapor pin is ever	
				(not required). Vac should be less than -0.004 in H ₂ 0.	removed.	

	ANNUAL INSEPECTION					
	NOTES / REPAIR COMPLETED					
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TABLE 2DIAGNOSITC TESTING DATA SUMMARY

One Hour Martinizing, Milwaukee, Wisconsin

	TEST 1						
Measurement Location	Suction Pit Used	Distance from EP-1 (ft)	Distance from EP-2 (ft)	Pressure (inch H ₂ O)			
System	EP-1 and EP-2			-2.753			
EP-1	EP-1 and EP-2		25	-2.020			
EP-2	EP-1 and EP-2	25		-2.009			
TP-1	EP-1 and EP-2	10	27.5	-0.008			
TP-2	EP-1 and EP-2	20	32.5	0			
TP-3	EP-1 and EP-2	30	40	0			
TP-4	EP-1 and EP-2	20	20	-0.007			
TP-5	EP-1 and EP-2	27.5	10	-0.012			
TP-6	EP-1 and EP-2	32.5	20	-0.002			
TP-7	EP-1 and EP-2	40	30	0			
			FPM	CFM			
Velocity and Temp (°F)	Velocity and Temp (°F)		3,378 @ 74.6	74			
		EP-2	1,313 @ 74	29			
		EP-1	1,495 @ 75.4	33			

TEST 2							
Measurement Location	Suction Pit Used	Distance from EP-2 (ft)	Pressure (inch H ₂ O)				
System	EP-2		-7.799				
EP-1	EP-2	25					
EP-2	EP-2		-8.068				
TP-1	EP-2	27.5	0				
TP-2	EP-2	32.5	0				
TP-3	EP-2	40	0				
TP-4	EP-2	20	-0.022				
TP-5	EP-2	10	-0.055				
TP-6	EP-2	20	-0.016				
TP-7	EP-2	30	-0.001				
		FPM	CFM				
Velocity and Temp (°F)	System (Shop-Vac)	2787 @74.3	61				
	EP-2	2731 @ 73.9	60				

	TEST 3						
Measurement Location	Suction Pit Used	Distance from EP-1 (ft)	Pressure (inch H ₂ O)				
System	EP-1		-5.564				
EP-1	EP-1		-4.993				
EP-2	EP-1	25					
TP-1	EP-1	10	-0.037				
TP-2	EP-1	20	-0.013				
TP-3	EP-1	30	0				
TP-4	EP-1	20	0				
TP-5	EP-1	27.5	0				
TP-6	EP-1	32.5	0				
TP-7	EP-1	40	0				
		FPM	CFM				
Velocity and Temp (°F)	System (Shop-Vac)	3208 @ 74.5	70				
	EP-1	2589 @ 74.8	56				

Notes:

All pressure readings were measured in inches of water

FPM = Feet per minute

CFM = Cubic feet per minute



Table A.4.aSoil Gas Sample Analytical ResultsOne Hour Martinizing285 East Hampton Avenue

Milwaukee, Wisconsin

Sample Identification Small Commercial <i>Residential VRS</i>		Tetrachloroethene 000,0	Zurichloroethene200	Acetone 3,200,000 1,060,000	Benzene 530	Carbon Disulfide 24,000	Cyclohexane 0000002100000	Dichlorodifluoromethane	Ethylbenzene 370	NE 4-Ethyl Toluene	u-Hebtaue 42,000	оне и-Неханс 24,000	Methylene Chloride 87,000	Bropylene 310,000 103,000	ene Styrene 100,000 33,000	Tetrahydrofuran Tetrahydrofuran	Dincue Tolucue 170,000	002'8 002'8 002'8	1,3,5-Trimethylbenzene 2,100	Xilene 3,300
6194 SB-1	9/21/2010	5,040	21.1	377	89.1	6.0	145	68.1	59.9	22.3	238	311	< 3.1	1,000	7.00	45.8	190	65.6	22.4	133
6194-SB-4	9/21/2010	7.4	< 4.8	29.9	< 2.8	< 2.7	< 3	< 4.4	133	< 4.4	< 3.6	245	342	< 6.1	5.1	< 2.6	< 3.3	5.9	5.4	< 11.5
6194-SB-5	9/21/2010	176,000	1,520	< 670	< 900	< 880	< 970	< 1,400	7.0	< 1,400	< 1,200	< 1,000	< 990	< 2,000	< 1,200	< 840	< 1,100	1,560	1,610	< 3,700
6194-SB-6	9/21/2010	111	275	73.4	< 27	< 26	< 29	< 42	45.8	< 42	< 35	< 30	72.4	< 59	< 36	< 25	43.4	44.6	48.3	< 111
6194-SG-1	6/3/2013	25	<11	NA	<6.4	NA	NA	<9.9	<8.7	NA	NA	NA	<17	NA	<8.5	NA	14	<9.8	<9.8	<8.7
6194-SG-2	6/3/2013	< 12	<9.8	NA	<5.8	NA	NA	<9.0	<7.9	NA	NA	NA	<16	NA	<7.7	NA	11	<8.9	<8.9	<7.9
6194-SG-3	6/3/2013	< 14	<11	NA	<6.4	NA	NA	<9.9	<8.7	NA	NA	NA	<17	NA	<8.5	NA	14	<9.8	<9.8	<8.7
6194-SG-4	6/3/2013	30,000	< 520	NA	< 310	NA	NA	< 480	< 420	NA	NA	NA	< 840	NA	< 410	NA	< 360	< 480	< 480	< 420
6194-SG-5	6/3/2013	20,000	< 210	NA	< 130	NA	NA	< 200	< 170	NA	NA	NA	< 340	NA	< 170	NA	< 150	< 190	< 190	< 170
6194-SG-6	7/8/2014	146	<10.7	<23,800	<16.0	<3,110	<55,100	<8.52	<86.8	<4,920	<4,100	<1,760	<417	<1,720	<4,260	<2,950	<37,700	<49.2	<49.2	<860
6194-SG-7	7/8/2014	<31.9	23.6	<23,800	<16.0	<3,110	<55,100	<8.52	<86.8	<4,920	<4,100	<1,760	<417	<1,720	<4,260	<2,950	<37,700	<49.2	<49.2	<860

Notes:

Vapor Risk Screening Levels (VRSLs) calculated according to the procedures described in WDNR Publication RR-800

All concentrations reported in untis of micrograms per cubic meter ($\mu g/m3$)

Bolded values exceed the Vapor Risk Screening Level for small commercial structures.

Bolded and Italisized values exceed the Vapor Risk Screening Level for residential structures.

NA = Not analyzed

NE = Not Established



Table A.4.b Sub-Slab Vapor Sample Analytical Results One Hour Martinizing

285 East Hampton Avenue

Milwaukee, Wisconsin

Sample Identification	Sample Address	Property Owner/ Occupant	Sample Date	Tetrachloroethene	Trichloroethene	Dichlorodifluoromethane	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
	ll Commercial Vapor Risk Scr			6,000	290	15,000	730,000	8,700	8,700
	esidential Vapor Risk Screening	1,400	70	3,300	170,000	2,100	2,100		
6194-Shovers-SSV-1	4771 N Santa Monica Blvd	Shovers Realty	6/3/2013	450	< 11	1,100	8.7	<9.8	<9.8
6194-Shovers-SSV-1	4771 N Santa Monica Blvd	Shovers Realty	4/8/2014	240	<10.7	NA	NA	NA	NA
6194-Shovers-SSV-2	4771 N Santa Monica Blvd	Shovers Realty	6/3/2013	380	<11	26	7.6	<9.8	<9.8
6194-Shovers-SSV-2	4771 N Santa Monica Blvd	Shovers Realty	4/8/2014	463	<10.7	NA	NA	NA	NA
6194-SSV-1	285 E Hampton Ave	OHM	6/4/2013	210	<11	< 9.9	< 7.5	< 9.9	< 7.5
	1		5/19/2015	4,960	122	NA	NA	NA	NA
6194-SSV-2	285 E Hampton Ave	OHM	6/4/2013	12,000	< 120	< 110	< 82	< 110	< 82
6194-SSV-3	285 E Hampton Ave	OHM	6/4/2013	6,700	200	< 48	< 37	< 48	< 37
6194-SSV-4	285 E Hampton Ave	OHM	5/19/2015	4,260	<10.7	NA	NA	NA	NA
6194-SSV-6	265 E Hampton Ave	Confluence Graphics	7/21/2014	<31.9	<10.7	<495	<37,700	471	251
6194-SSV-7	261 E Hampton Ave	Aliota/WFB Hampton	7/10/2014	1,520	30.1	<495	<37,700	<49.2	<49.2
6194-SSV-8	261 E Hampton Ave	Aliota/WFB Hampton	7/10/2014	73.3	<10.7	<495	<37,700	<49.2	<49.2
6194-SSV-9	261 E Hampton Ave	Aliota/WFB Hampton	7/10/2014	<31.9	<10.7	<495	<37,700	<49.2	<49.2
6194-SSV-10	261 E Hampton Ave	Aliota/WFB Hampton	7/10/2014	1,050	12.4	<495	<37,700	<49.2	<49.2
(104 0017 11			10/7/2014	3,770	<10.7	<495	<37,700	<49.2	<49.2
6194-SSV-11	265 E Hampton Ave	Confluence Graphics	1/9/2015	357	<10.7	NA	NA	NA	NA
6194-SSV-12	285 E Hampton Ave	OHM	8/23/2018	21,400	13.3	NA	NA	NA	NA
6194-SSV-13	285 E Hampton Ave	OHM	8/23/2018	539	<10.7	NA	NA	NA	NA

Notes:

Vapor Risk Screening Levels (VRSLs) calculated according to the procedures described in WDNR Publication RR-800

All concentrations reported in until of micrograms per cubic meter ($\mu g/m3$)

Bolded values exceed the Vapor Risk Screening Level for small commercial buildings

Bolded and Italisized values exceed the Vapor Risk Screening Level for residential buildings

NA = Not analyzed



Table A.4.c Indoor Air Sample Analytical Results One Hour Martinizing 285 East Hampton Avenue Milwaukee, Wisconsin

Sample Identification	Sample Address	Property Owner/ Occupant	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Chloromethane	Dichlorodifluoromethane	1,3-Dichlorobenzene	Ethylbenzene	Methylene Chloride	Styrene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichlorofluoromethane	m&p Xylenes	o Xylene
Small Commercial Vapor Action Level (µg/m3)				180	8.8	NE	NE	28	16	390	440	NE	49	2,600	4,400	22,000	260	260	NE	440	440
	Residential Vapor Action Level (µg/m3)					NE	NE	1.7	3.6	94	100	NE	11	630	1,000	5,200	63	63	NE	100	100
6194-Shovers-OA	4771 N Santa Monica Blvd	Shovers Realty	5/31/2013	1.7	<1.1	< 0.79	NA	< 0.51	3.8	2.5	2.5	4.4	< 0.87	2.0	< 0.85	3.6	< 0.98	< 0.98	2.1	1.5	< 0.87
6194-Shovers-IA-1	4771 N Santa Monica Blvd	Shovers Realty	5/31/2013	3.8	<1.1	< 0.79	NA	< 0.51	2.8	5.0	6.9	< 1.2	2.0	< 1.7	1.3	13	24	6.1	3.4	7.5	3.2
6194-CG-IA-1	265 E Hampton Ave	Confluence Graphics	1/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6194-CG-IA-B	265 E Hampton Ave	Confluence Graphics	1/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6194-CG-OA-1	265 E Hampton Ave	Confluence Graphics	1/8/2015	<3.19	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6194-OHM-IA-1	285 E Hampton Ave	OHM	5/18/2015	1,570	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0194-011101-1A-1	205 E frampion Ave		8/23/2018	<3.19	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6194-OHM-OA-1	285 E Hampton Ave	OHM	5/18/2015	<3.19	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0194-ОПМ-ОА-1	203 E nampion Ave	ОНМ	8/23/2018	<3.19	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Vapor Action Levels are based on U.S. E.P.A.'s Regional Screening Levels (RSL's) for small commercial buildings and calculated according to the procedures described in WDNR Publication RR-800 All concentrations reported in untis of micrograms per cubic meter (μ g/m3) **Bolded** values exceed the Vapor Action Level

NA = Not analyzed

NE = Not Established

ENVIRO erensics