Tony Evers, Governor Preston D. Cole, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



March 12, 2021

Carrie E. Olson P.O. Box 553 Gillett, WI 54124

> SUBJECT: Vapor Sampling Results - <u>Contaminant Detection Below DNR Screening Level</u> PROPERTY: Econo Wash, 113 East Main Street, Gillett, WI BRRTS #: 02-43-547861

Dear Ms. Olson:

Included are the findings of a recent investigation on your property located at 109 East Main Street, City of Gillett, Wisconsin by the Wisconsin Department of Natural Resources (DNR).

As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby Econo Wash property, identified above, to migrate through soils, accumulate beneath the foundation of your business, and possibly enter the indoor air. The contaminants of concern at the Econo Wash property are Chlorinated Volatile Organic Compounds (CVOCs). The history of this site and the potential concerns to neighboring properties were described in detail in the original letter sent to you in October 2020.

On February 2, 2021, an environmental consultant, Westwood Infrastructure, Inc. (Westwood), hired by DNR installed a sampling device into the floor of your foundation and collected a sub-slab vapor (air) sample. The sample was then submitted to Synergy Environmental Lab, Inc., where it underwent laboratory analysis for seven different CVOCs including 1,1-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene (PCE), 1,1,1-trichloroethane, trichloroethene (TCE), and vinyl chloride (VC).

Your Test Results

Attached is a copy of the laboratory report for your sub-slab air sample. The results show that a small amount of chlorinated compounds was detected in the sample taken from beneath your foundation. Although tetrachloroethene was detected in soil vapors beneath your foundation floor, the level at which it was detected is such that it does not pose a threat to any occupant in the building. This is called "a detection below screening level" and is explained in the enclosed fact sheet.

At this time, there does not appear to be a risk of CVOC vapor entering your business from beneath the foundation. Additional sampling needs to be conducted in order to confirm these results. Westwood will contact you to schedule another sampling visit.

Please feel free to contact me at (920) 510-8294 or via email at Keld.Lauridsen@wisconsin.gov if you have any questions about these results. Your cooperation in this matter is greatly appreciated.

Sincerely,

Keld Lauridsen Hydrogeologist Remediation and Redevelopment Program

Attachments: Understanding Chemical Vapor Testing Results (RR-977) Figure 2, Detailed Site Map, 2/23/21 Laboratory Analytical Results



RR-977

October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.





Follow-Up Actions

If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of

Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



<u>A Note about Measurement Units:</u> The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as "screening levels."

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where $\mu g/m3$ represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit <u>dnr.wi.gov/topic/Brownfields/Vapor.html</u>



Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

OUIN LENZ WESTWOOD PROFESSIONAL SERVICES 12701 WHITEWATER DRIVE MINNETONKA, MN 55343

Report Date 05-Feb-21

Project Name	ECONOWASH R3000914.00		Invoice # E39049								
Lab Code Sample ID Sample Matrix Sample Date	5039049A 109 MAIN VP-1 Air 2/2/2021										
I I I	Res	ult	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic Air Samples											
1,1-Dichloroethane		< 0.187	ug/m3	0.187	0.596	1	TO-15		2/3/2021	CJR	1
cis-1,2-Dichloroethe	ene	< 0.197	ug/m3	0.197	0.626	1	TO-15		2/3/2021	CJR	1
trans-1,2-Dichloroe	thene	< 0.231	ug/m3	0.231	0.734	1	TO-15		2/3/2021	CJR	1
Tetrachloroethene	13.4		ug/m3	0.278	0.884	1	TO-15		2/3/2021	CJR	1
1,1,1-Trichloroetha	ne	< 0.249	ug/m3	0.249	0.793	1	TO-15		2/3/2021	CJR	1
Trichloroethene (TO	CE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		2/3/2021	CJR	1
Vinyl Chloride		< 0.148	ug/m3	0.148	0.472	1	TO-15		2/3/2021	CJR	1

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March 12, 2021

Timmy and Katherine Soper 6081 Klaus Lake Road Gillett, WI 54124

> SUBJECT: Vapor Sampling Results - <u>Contaminant Detection Below DNR Screening Level</u> PROPERTY: Econo Wash, 113 East Main Street, Gillett, WI BRRTS #: 02-43-547861

Dear Mr. and Mrs. Soper:

Included are the findings of a recent investigation on your property located at 119 East Main Street, City of Gillett, Wisconsin by the Wisconsin Department of Natural Resources (DNR).

As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby Econo Wash property, identified above, to migrate through soils, accumulate beneath the foundation of your business, and possibly enter the indoor air. The contaminants of concern at the Econo Wash property are Chlorinated Volatile Organic Compounds (CVOCs). The history of this site and the potential concerns to neighboring properties were described in detail in the original letter sent to you in October 2020.

On February 2, 2021, an environmental consultant, Westwood Infrastructure, Inc. (Westwood), hired by DNR installed a sampling device into the floor of your foundation and collected a sub-slab vapor (air) sample. The sample was then submitted to Synergy Environmental Lab, Inc., where it underwent laboratory analysis for seven different CVOCs including 1,1-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene (PCE), 1,1,1-trichloroethane, trichloroethene (TCE), and vinyl chloride (VC).

Your Test Results

Attached is a copy of the laboratory report for your sub-slab air sample. The results show that a small amount of chlorinated compounds were detected in the sample taken from beneath your foundation. Although tetrachloroethene and trichloroethene were detected in soil vapors beneath your foundation floor, the level at which they were detected is such that it does not pose a threat to you or any occupant in the building. This is called "a detection below screening level" and is explained in the enclosed fact sheet.

At this time, there does not appear to be a risk of CVOC vapor entering your business from beneath the foundation. Additional sampling needs to be conducted in order to confirm these results. Westwood will contact you to schedule another sampling visit.

Please feel free to contact me at (920) 510-8294 or via email at Keld.Lauridsen@wisconsin.gov if you have any questions about these results. Your cooperation in this matter is greatly appreciated.

Sincerely.

Kell

Keld Lauridsen Hydrogeologist Remediation and Redevelopment Program

Attachments: Understanding Chemical Vapor Testing Results (DNR PUB RR 977) Figure 2, Detailed Site Map, 2/23/21 Laboratory Analytical Results



RR-977

October 2014

From the Lab to You

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Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

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Sub-slab Soil Gas Testing Results

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Follow-Up Actions

If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of

Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



<u>A Note about Measurement Units:</u> The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as "screening levels."

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where $\mu g/m3$ represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit <u>dnr.wi.gov/topic/Brownfields/Vapor.html</u>



Project Name Project #	ECONOWA R3000914.0	ASH 0	Invoice # E39049									
Lab Code	5039049C											
Sample ID	119 MAIN	VP-1										
Sample Matrix	x Air											
Sample Date	2/2/2021											
		Result	Unit	LOD I	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code	
Organic												
Air Samples												
1,1-Dichloroethand	9	< 0.187	ug/m3	0.187	0.596	1	TO-15		2/3/2021	CJR	1	
cis-1,2-Dichloroeth	nene	< 0.197	ug/m3	0.197	0.626	1	TO-15		2/3/2021	CJR	1	
trans-1,2-Dichloro	ethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		2/3/2021	CJR	1	
Tetrachloroethene		37	ug/m3	0.278	0.884	1	TO-15		2/3/2021	CJR	1	
1,1,1-Trichloroeth	ane	< 0.249	ug/m3	0.249	0.793	1	TO-15		2/3/2021	CJR	1	
Trichloroethene (T	CE)	3.9	ug/m3	0.237	0.754	1	TO-15		2/3/2021	CJR	1	
Vinyl Chloride		< 0.148	ug/m3	0.148	0.472	1	TO-15		2/3/2021	CJR	1	

Tony Evers, Governor Preston D. Cole, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



March 12, 2021

Chelsea Henkel 9743 Gray Lake Road Gillett, WI 54124

> SUBJECT: Vapor Sampling Results - <u>Contaminant Detection Below DNR Screening Level</u> PROPERTY: Econo Wash, 113 East Main Street, Gillett, WI BRRTS #: 02-43-547861

Dear Ms. Henkel:

Included are the findings of a recent investigation on your property located at 121 East Main Street, City of Gillett, Wisconsin by the Wisconsin Department of Natural Resources (DNR).

As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby Econo Wash property, identified above, to migrate through soils, accumulate beneath the foundation of your business, and possibly enter the indoor air. The contaminants of concern at the Econo Wash property are Chlorinated Volatile Organic Compounds (CVOCs). The history of this site and the potential concerns to neighboring properties were described in detail in the original letter sent to you in October 2020.

On February 2, 2021, an environmental consultant, Westwood Infrastructure, Inc. (Westwood), hired by DNR installed a sampling device into the floor of your foundation and collected a sub-slab vapor (air) sample. The sample was then submitted to Synergy Environmental Lab, Inc., where it underwent laboratory analysis for seven different CVOCs including 1,1-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene (PCE), 1,1,1-trichloroethane, trichloroethene (TCE), and vinyl chloride (VC).

Your Test Results

Attached is a copy of the laboratory report for your sub-slab air sample. The results show that a small amount of a chlorinated compound was detected in the sample taken from beneath your foundation. Although tetrachloroethene was detected in soil vapors beneath your foundation floor, the level at which it was detected is such that it does not pose a threat to you or any occupant in the building. This is called "a detection below screening level" and is explained in the enclosed fact sheet.

At this time, there does not appear to be a risk of CVOC vapor entering your business from beneath the foundation. Additional sampling needs to be conducted in order to confirm these results. Westwood will contact you to schedule another sampling visit.

Please feel free to contact me at (920) 510-8294 or via email at Keld.Lauridsen@wisconsin.gov if you have any questions about these results. Your cooperation in this matter is greatly appreciated.

Sincerely,

Keld Lauridsen Hydrogeologist Remediation and Redevelopment Program

Attachments: Understanding Chemical Vapor Testing Results (DNR PUB RR 977) Figure 2, Detailed Site Map, 2/23/21 Laboratory Analytical Results



RR-977

October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

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Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.





Follow-Up Actions

If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of

Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



<u>A Note about Measurement Units:</u> The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as "screening levels."

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For more information, visit dnr.wi.gov/topic/Brownfields/Vapor.html



Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

OUIN LENZ WESTWOOD PROFESSIONAL SERVICES 12701 WHITEWATER DRIVE MINNETONKA, MN 55343

Report Date 05-Feb-21

 Lab Code
 5039049B

 Sample ID
 121 MAIN VP-1

 Sample Matrix
 Air

 Sample Date
 2/2/2021

	Result	Unit	LOD I	LOQ Di	l	Method	Ext Date	Run Date Analyst	Code
Organic									
Air Samples									
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		2/3/2021 CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		2/3/2021 CJR	1
trans-1,2-Dichloroethene	< 0.231	ug/m3	0.231	0.734	1	TO-15		2/3/2021 CJR	1
Tetrachloroethene	36	ug/m3	0.278	0.884	1	TO-15		2/3/2021 CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		2/3/2021 CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		2/3/2021 CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		2/3/2021 CJR	1

Tony Evers, Governor Preston D. Cole, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



March 12, 2021

S and D Vandermause P.O. Box 416 Gillett, WI 54124

> SUBJECT: Vapor Sampling Results - <u>Contaminant Detection Below DNR Screening Level</u> PROPERTY: Econo Wash, 113 East Main Street, Gillett, WI BRRTS #: 02-43-547861

Dear Mr. Vandermause:

Included are the findings of a recent investigation on your property located at 119 East Railroad Street, City of Gillett, Wisconsin by the Wisconsin Department of Natural Resources (DNR).

As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby Econo Wash property, identified above, to migrate through soils, accumulate beneath the foundation of your business, and possibly enter the indoor air. The contaminants of concern at the Econo Wash property are Chlorinated Volatile Organic Compounds (CVOCs). The history of this site and the potential concerns to neighboring properties were described in detail in the original letter sent to you in October 2020.

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Your Test Results

Attached is a copy of the laboratory report for your two sub-slab air samples. The results show that a small amount of a chlorinated compound was detected in the samples taken from beneath your foundation. Although tetrachloroethene was detected at vapor port VP-1 and cis-1,2-dichloroethene, tetrachloroethene and trichloroethene at VP-2 in soil vapors beneath your foundation floor, the level at which they were detected is such that it does not pose a threat to you or any occupant in the building. This is called "a detection below screening level" and is explained in the enclosed fact sheet.

At this time, there does not appear to be a risk of CVOC vapor entering your business from beneath the foundation. Additional sampling needs to be conducted in order to confirm these results. Westwood will contact you to schedule another sampling visit.

Please feel free to contact me at (920) 510-8294 or via email at Keld.Lauridsen@wisconsin.gov if you have any questions about these results. Your cooperation in this matter is greatly appreciated.

Sincerely. MAC

Keld Lauridsen Hydrogeologist Remediation and Redevelopment Program

Attachments: Understanding Chemical Vapor Testing Results (DNR PUB RR 977) Figure 2, Detailed Site Map, 2/23/21 Laboratory Analytical Results



RR-977

October 2014

From the Lab to You

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Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.





Follow-Up Actions

If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of

Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



<u>A Note about Measurement Units:</u> The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as "screening levels."

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where $\mu g/m3$ represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit dnr.wi.gov/topic/Brownfields/Vapor.html



Lab Code	5039049D										
Sample ID Sample Matrix	119 RAILI Air	ROAD VP-1									
Sample Date	2/2/2021	Decult	TIn:4	LOD	100	Dil	Mothod	Evt Data	Dun Data	Analyst	Cada
		Result	Unit	LOD	LUQ	DII	Method	Ext Date	Run Date	Anaryst	Code
Organic											
Air Samples											
1,1-Dichloroethane		< 0.187	ug/m3	0.187	0.596	1	TO-15		2/3/2021	CJR	1
cis-1,2-Dichloroethe	ene	< 0.197	ug/m3	0.197	0.626	1	TO-15		2/3/2021	CJR	1
trans-1,2-Dichloroet	thene	< 0.231	ug/m3	0.231	0.734	1	TO-15		2/3/2021	CJR	1
Tetrachloroethene		1.49	ug/m3	0.278	0.884	1	TO-15		2/3/2021	CJR	1
1,1,1-Trichloroethane		< 0.249	ug/m3	0.249	0.793	1	TO-15		2/3/2021	CJR	1
Trichloroethene (TC	CE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		2/3/2021	CJR	1
Vinyl Chloride		< 0.148	ug/m3	0.148	0.472	1	TO-15		2/3/2021	CJR	1
Lab Code	5039049E										
Sample ID	119 RAILI	ROAD VP-2									
Sample Matrix	Air										
Sample Date	2/2/2021										
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic											
Air Samples											
1,1-Dichloroethane		< 0.187	ug/m3	0.187	0.596	1	TO-15		2/3/2021	CJR	1
cis-1,2-Dichloroethe	ene	0.277 "J"	ug/m3	0.197	0.626	1	TO-15		2/3/2021	CJR	1
trans-1,2-Dichloroet	thene	< 0.231	ug/m3	0.231	0.734	1	TO-15		2/3/2021	CJR	1
Tetrachloroethene		54	ug/m3	0.278	0.884	1	TO-15		2/3/2021	CJR	1
1,1,1-Trichloroetha	ne	< 0.249	ug/m3	0.249	0.793	1	TO-15		2/3/2021	CJR	1
Trichloroethene (TC	CE)	0.43 "J"	ug/m3	0.237	0.754	1	TO-15		2/3/2021	CJR	1
Vinyl Chloride		< 0.148	ug/m3	0.148	0.472	1	TO-15		2/3/2021	CJR	1