

January 9, 2018

Levi Wagner  
2915 S. 26th St  
Manitowoc, WI 54220

Subject: Well Water Sample Results from Area Sampling for  
2915 South 26th Street, Town of Manitowoc, Wisconsin

Dear Mr. Wagner,

As part of the representative area sampling completed by the Department of Natural Resources (DNR), the results have been received for the water sample collected from your private well on December 14, 2017. The water sample was analyzed for volatile organic compounds (VOCs). The primary contaminants DNR is concerned with in the area are chlorinated solvents, specifically cis-1,2-dichloroethylene and vinyl chloride, because these have been detected in other private wells in the area.

The laboratory test included analysis of 68 VOCs. There were no VOCs detected in your well water sample. A summary of the attached lab report for the two contaminants of concern stated above is:

<u>Contaminant</u>	<u>Lab Result</u>	<u>Drinking Water Standard</u>
cis-1,2-dichloroethylene	0.0 ug/L	70 ug/L
vinyl chloride	0.0 ug/L	0.20 ug/L

ug/L = micrograms per liter or parts per billion (ppb)

Please refer to the laboratory report attached to this letter for the full list of VOCs analyzed. The Drinking Water Standard (aka the Enforcement Standard) is the contaminant concentration at which the water is not safe to drink. Since no VOCs were detected, your well water is considered safe to drink and use. Please remember that your water was only tested for VOCs as part of this representative area sampling. As good practice, DNR generally recommends that private well owners sample their well annually for bacteria, nitrates and arsenic.

If you have any questions about your well water results, please contact me at 715-579-9729.

Sincerely,

A handwritten signature in black ink that reads "Jim Kasdorf". The signature is written in a cursive style.

Jim Kasdorf  
Bureau of Drinking Water and Groundwater

cc: Marty Nessman – WDNR  
Tauren Beggs – WDNR

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/05/2018

Lab: 113133790

Sample: 359507001

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**Laboratory:** Wisconsin State Laboratory of Hygiene  
2601 Agriculture Dr  
Madison WI 53718  
Phone : 800-442-4618 Fax Phone : 608-224-6213

DNR ID 113133790

**Sample:**

Field #:	LEVI WAGNER	Sample #:	359507001
Collection Start:	12/14/2017 08:40 am	Collection End:	12/14/2017 09:07 am
Collected by:	JIM KASDORF	Waterbody/Outfall Id:	
ID #:		ID Point #:	SAMPLE TAP
County:	Manitowoc	Account #:	RR051
Sample Location:	2915 SOUTH 26TH STREET MANITOWOC, WI 54220		
Sample Description:	PRIVATE WELL WATER SAMPLE FROM SAMPLE TAP		
Sample Source:	Private (other)	Sample Depth:	
Date Reported:	01/04/2018	Sample Status:	COMPLETE
Project No:		Sample Reason:	
Comment:			

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment			
EPA 8260B in Water		12/21/2017				
Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	ND	ug/L	0.50		1.6
34506	1,1,1-TRICHLOROETHANE	ND	ug/L	0.50		1.6
34516	1,1,2,2-TETRACHLOROETHANE	ND	ug/L	0.50		1.6
34511	1,1,2-TRICHLOROETHANE	ND	ug/L	0.50		1.6
34496	1,1-DICHLOROETHANE	ND	ug/L	0.30		0.95
34501	1,1-DICHLOROETHYLENE	ND	ug/L	0.50		1.6
77168	1,1-DICHLOROPROPENE	ND	ug/L	0.50		1.6
77613	1,2,3-TRICHLOROBENZENE	ND	ug/L	0.50		1.6
77443	1,2,3-TRICHLOROPROPANE	ND	ug/L	1.0		3.2
34551	1,2,4-TRICHLOROBENZENE	ND	ug/L	0.50		1.6
77222	1,2,4-TRIMETHYLBENZENE	ND	ug/L	0.20		0.64
38437	1,2-DIBROMO-3-CHLOROPROPANE	ND	ug/L	1.0		3.2
77651	1,2-DIBROMOETHANE	ND	ug/L	0.50		1.6
34536	1,2-DICHLOROBENZENE	ND	ug/L	0.25		0.80
34531	1,2-DICHLOROETHANE	ND	ug/L	0.50		1.6
77093	1,2-DICHLOROETHYLENE CIS	ND	ug/L	0.30		0.95
34546	1,2-DICHLOROETHYLENE TRANS	ND	ug/L	0.50		1.6
34541	1,2-DICHLOROPROPANE	ND	ug/L	0.50		1.6

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Lab: 113133790

Sample: 359507001

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Code	Description	Result	Units	LOD	Report Limit	LOQ
77226	1,3,5-TRIMETHYLBENZENE	ND	ug/L	0.20		0.64
34566	1,3-DICHLOROBENZENE	ND	ug/L	0.25		0.80
77173	1,3-DICHLOROPROPANE	ND	ug/L	0.30		0.95
34704	1,3-DICHLOROPROPENE-CIS	ND	ug/L	0.30		0.95
34699	1,3-DICHLOROPROPENE-TRANS	ND	ug/L	0.50		1.6
34571	1,4-DICHLOROBENZENE	ND	ug/L	0.25		0.80
77170	2,2-DICHLOROPROPANE	ND	ug/L	0.50		1.6
77275	2-CHLOROTOLUENE	ND	ug/L	0.30		0.95
81552	ACETONE	ND	ug/L	3.0		9.5
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					
34030	BENZENE	ND	ug/L	0.30		0.95
81555	BROMOBENZENE	ND	ug/L	0.50		1.6
77297	BROMOCHLOROMETHANE	ND	ug/L	0.50		1.6
32101	BROMODICHLOROMETHANE	ND	ug/L	0.50		1.6
32104	BROMOFORM	ND	ug/L	1.0		3.2
34413	BROMOMETHANE	ND	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
77350	BUTYLBENZENE SEC	ND	ug/L	0.20		0.64
77353	BUTYLBENZENE TERT	ND	ug/L	0.50		1.6
77041	CARBON DISULFIDE	ND	ug/L	0.30		0.95
32102	CARBON TETRACHLORIDE	ND	ug/L	0.50		1.6
34301	CHLOROBENZENE	ND	ug/L	0.25		0.80
34311	CHLOROETHANE	ND	ug/L	0.50		1.6
32106	CHLOROFORM	ND	ug/L	0.25		0.80
34418	CHLOROMETHANE	ND	ug/L	1.0		3.2
32105	DIBROMOCHLOROMETHANE	ND	ug/L	0.50		1.6
77596	DIBROMOMETHANE	ND	ug/L	0.50		1.6
34668	DICHLORODIFLUOROMETHANE	ND	ug/L	0.50		1.6
81577	DIISOPROPYL ETHER	ND	ug/L	0.25		0.80
34371	ETHYLBENZENE	ND	ug/L	0.20		0.64
34391	HEXACHLOROBUTADIENE	ND	ug/L	0.50		1.6
81590	HEXANE, MIXTURE OF ISOMERS	ND	ug/L	0.50		1.6
77223	ISOPROPYLBENZENE	ND	ug/L	0.20		0.64

**Wisconsin Department of Natural Resources  
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01/05/2018

Lab: 113133790

Sample: 359507001

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Code	Description	Result	Units	LOD	Report Limit	LOQ
85795	M/P-XYLENE	ND	ug/L	0.40		1.3
81595	METHYL ETHYL KETONE	ND	ug/L	3.0		9.5
	<i>Comment:</i> The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.					
78133	METHYL ISOBUTYL KETONE (MIBK)	ND	ug/L	2.0		6.4
78032	METHYL TERT BUTYL ETHER	ND	ug/L	0.30		0.95
34423	METHYLENE CHLORIDE	ND	ug/L	0.50		1.6
77342	N-BUTYLBENZENE	ND	ug/L	0.20		0.64
77224	N-PROPYLBENZENE	ND	ug/L	0.20		0.64
34696	NAPHTHALENE	ND	ug/L	0.30		0.95
77135	O-XYLENE	ND	ug/L	0.30		0.95
77277	P-CHLOROTOLUENE	ND	ug/L	0.30		0.95
77356	P-ISOPROPYLTOLUENE	ND	ug/L	0.20		0.64
77128	STYRENE	ND	ug/L	0.25		0.80
34475	TETRACHLOROETHYLENE	ND	ug/L	0.50		1.6
81607	TETRAHYDROFURAN	ND	ug/L	2.0		6.4
34010	TOLUENE	ND	ug/L	0.25		0.80
39180	TRICHLOROETHYLENE	ND	ug/L	0.50		1.6
34488	TRICHLOROFLUOROMETHANE	ND	ug/L	0.50		1.6
81611	TRICHLOROTRIFLUOROETHANE	ND	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
39175	VINYL CHLORIDE	ND	ug/L	0.20		0.64
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					



January 9, 2018

Anita Moore  
3008 S. 26th St  
Manitowoc, WI 54220

Subject: Initial and Confirmation Well Water Sample Results from Area Sampling for  
3008 South 26th Street, Town of Newton, Wisconsin

Dear Ms. Moore,

Tauren Beggs and I from the Department of Natural Resources (DNR) met with you on December 14, 2017 after the initial sample results were received for a well water sample collected on November 8, 2017 from your private well as part of a representative area sampling effort. Since the sample results showed a concentration above the DNR's Drinking Water Standard, your water is unsafe to drink. The DNR worked with the City of Manitowoc to provide you with clean bottled water from Culligan. After discussing the results with you on December 14, 2017, a confirmation water sample was collected from your private well.

The laboratory test for the initial and confirmation samples included analysis of 68 VOCs. Vinyl chloride was detected at a concentration above the drinking water standard in the initial sample. Vinyl chloride was again detected above the drinking water standard in the confirmation sample. A summary of the attached lab reports for the two contaminants of concern, cis-1,2-dichloroethylene and vinyl chloride, in the initial and confirmation samples is:

Initial Sample Collected November 8, 2017

<u>Contaminant</u>	<u>Lab Result</u>	<u>Drinking Water Standard</u>
cis-1,2-dichloroethylene	1.0 ug/L	70 ug/L
vinyl chloride	<b>0.47</b> ug/L	0.20 ug/L

Confirmation Sample Collected December 14, 2017

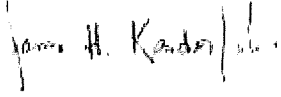
<u>Contaminant</u>	<u>Lab Result</u>	<u>Drinking Water Standard</u>
cis-1,2-dichloroethylene	0.85 ug/L	70 ug/L
vinyl chloride	<b>0.55</b> ug/L	0.20 ug/L

ug/L = micrograms per liter or parts per billion (ppb)

Please refer to the laboratory reports attached to this letter for the full list of VOCs analyzed. As part of a larger investigation, the DNR is working on a permanent solution for providing you with safe drinking water. In the meantime, the water provided by Culligan will act as a temporary source of safe drinking water. DNR will be in contact with you once a solution has been determined.

If you have any questions, please contact me at 715-579-9729.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim H. Kasdorf". The signature is written in a cursive style with a vertical line through the middle.

Jim Kasdorf  
Bureau of Drinking Water and Groundwater

cc: Marty Nessman – WDNR  
Tauren Beggs – WDNR

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/09/2018

Lab: 113133790

Sample: 353508001

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**Laboratory:** Wisconsin State Laboratory of Hygiene  
2601 Agriculture Dr  
Madison WI 53718  
Phone : 800-442-4618 Fax Phone : 608-224-6213

DNR ID 113133790

**Sample:**

Field #:	ANITA MOORE	Sample #:	353508001
Collection Start:	11/08/2017 09:09 am	Collection End:	11/08/2017 09:09 am
Collected by:	JIM KASDORF	Waterbody/Outfall Id:	
ID #:		ID Point #:	SPIGOT W SIDE
County:	Manitowoc	Account #:	RR051
Sample Location:	3008 SOUTH 26TH STREET NEWTON, WI 54420		
Sample Description:			
Sample Source:	Private (other)	Sample Depth:	
Date Reported:	11/16/2017	Sample Status:	COMPLETE
Project No:		Sample Reason:	
Comment:			

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment			
EPA 8260B in Water		11/14/2017				
Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34506	1,1,1-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34516	1,1,2,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34511	1,1,2-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34496	1,1-DICHLOROETHANE	0.0	ug/L	0.30		0.95
34501	1,1-DICHLOROETHYLENE	0.0	ug/L	0.50		1.6
77168	1,1-DICHLOROPROPENE	0.0	ug/L	0.50		1.6
77613	1,2,3-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77443	1,2,3-TRICHLOROPROPANE	0.0	ug/L	1.0		3.2
34551	1,2,4-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77222	1,2,4-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
38437	1,2-DIBROMO-3-CHLOROPROPANE	0.0	ug/L	1.0		3.2
77651	1,2-DIBROMOETHANE	0.0	ug/L	0.50		1.6
34536	1,2-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
34531	1,2-DICHLOROETHANE	0.0	ug/L	0.50		1.6
77093	1,2-DICHLOROETHYLENE CIS	1.0	ug/L	0.30		0.95
34546	1,2-DICHLOROETHYLENE TRANS	0.0	ug/L	0.50		1.6
34541	1,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/09/2018

Lab: 113133790

Sample: 353508001

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Code	Description	Result	Units	LOD	Report Limit	LOQ
77226	1,3,5-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
34566	1,3-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77173	1,3-DICHLOROPROPANE	0.0	ug/L	0.30		0.95
34704	1,3-DICHLOROPROPENE-CIS	0.0	ug/L	0.30		0.95
34699	1,3-DICHLOROPROPENE-TRANS	0.0	ug/L	0.50		1.6
34571	1,4-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77170	2,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6
77275	2-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
81552	ACETONE	0.0	ug/L	3.0		9.5
34030	BENZENE	0.0	ug/L	0.30		0.95
81555	BROMOBENZENE	0.0	ug/L	0.50		1.6
77297	BROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
32101	BROMODICHLOROMETHANE	0.0	ug/L	0.50		1.6
32104	BROMOFORM	0.0	ug/L	1.0		3.2
34413	BROMOMETHANE	0.0	ug/L	0.50		1.6
77350	BUTYLBENZENE SEC	0.0	ug/L	0.20		0.64
77353	BUTYLBENZENE TERT	0.0	ug/L	0.50		1.6
77041	CARBON DISULFIDE	0.0	ug/L	0.30		0.95
32102	CARBON TETRACHLORIDE	0.0	ug/L	0.50		1.6
34301	CHLOROBENZENE	0.0	ug/L	0.25		0.80
34311	CHLOROETHANE	0.0	ug/L	0.50		1.6
32106	CHLOROFORM	0.0	ug/L	0.25		0.80
34418	CHLOROMETHANE	0.0	ug/L	1.0		3.2
32105	DIBROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
77596	DIBROMOMETHANE	0.0	ug/L	0.50		1.6
34668	DICHLORODIFLUOROMETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The Lower QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the lower QC limit.					
81577	DIISOPROPYL ETHER	0.0	ug/L	0.25		0.80
34371	ETHYLBENZENE	0.0	ug/L	0.20		0.64
34391	HEXACHLOROBUTADIENE	0.0	ug/L	0.50		1.6
81590	HEXANE, MIXTURE OF ISOMERS	0.0	ug/L	0.50		1.6
77223	ISOPROPYLBENZENE	0.0	ug/L	0.20		0.64
85795	M/P-XYLENE	0.0	ug/L	0.40		1.3



**Wisconsin Department of Natural Resources  
Laboratory Report**

01/09/2018

Lab: 113133790

Sample: 353508001

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<i>Code</i>	<i>Description</i>	<i>Result</i>	<i>Units</i>	<i>LOD</i>	<i>Report Limit</i>	<i>LOQ</i>
81595	METHYL ETHYL KETONE	0.0	ug/L	3.0		9.5
78133	METHYL ISOBUTYL KETONE (MIBK)	0.0	ug/L	2.0		6.4
78032	METHYL TERT BUTYL ETHER	0.0	ug/L	0.30		0.95
34423	METHYLENE CHLORIDE	0.0	ug/L	0.50		1.6
77342	N-BUTYLBENZENE	0.0	ug/L	0.20		0.64
77224	N-PROPYLBENZENE	0.0	ug/L	0.20		0.64
34696	NAPHTHALENE	0.0	ug/L	0.30		0.95
77135	O-XYLENE	0.0	ug/L	0.30		0.95
77277	P-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
77356	P-ISOPROPYLTOLUENE	0.0	ug/L	0.20		0.64
77128	STYRENE	0.0	ug/L	0.25		0.80
34475	TETRACHLOROETHYLENE	0.0	ug/L	0.50		1.6
81607	TETRAHYDROFURAN	0.0	ug/L	2.0		6.4
34010	TOLUENE	0.0	ug/L	0.25		0.80
39180	TRICHLOROETHYLENE	0.0	ug/L	0.50		1.6
34488	TRICHLOROFLUOROMETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The Lower QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the lower QC limit.					
81611	TRICHLOROTRIFLUOROETHANE	0.0	ug/L	0.50		1.6
39175	VINYL CHLORIDE	0.47	ug/L	0.20		0.64

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/05/2018

Lab: 113133790

Sample: 359507002

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**Laboratory:** Wisconsin State Laboratory of Hygiene  
2601 Agriculture Dr  
Madison WI 53718  
Phone : 800-442-4618 Fax Phone : 608-224-6213

DNR ID 113133790

**Sample:**

Field #:	ANITA MOORE	Sample #:	359507002
Collection Start:	12/14/2017 10:35 am	Collection End:	12/14/2017 10:50 am
Collected by:	JIM KASDORF	Waterbody/Outfall Id:	
ID #:		ID Point #:	SAMPLE TAP BASE
County:	Manitowoc	Account #:	RR051
Sample Location:	3008 SOUTH 26TH STREET NEWTON, WI 54420		
Sample Description:	PRIVATE WELL-VOC		
Sample Source:	Private (other)	Sample Depth:	
Date Reported:	01/04/2018	Sample Status:	COMPLETE
Project No:		Sample Reason:	
Comment:	Associated Trip Blank (359507003) with batch VOC/1418		

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment			
EPA 8260B in Water		12/28/2017				
Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	ND	ug/L	0.50		1.6
34506	1,1,1-TRICHLOROETHANE	ND	ug/L	0.50		1.6
34516	1,1,2,2-TETRACHLOROETHANE	ND	ug/L	0.50		1.6
34511	1,1,2-TRICHLOROETHANE	ND	ug/L	0.50		1.6
34496	1,1-DICHLOROETHANE	ND	ug/L	0.30		0.95
34501	1,1-DICHLOROETHYLENE	ND	ug/L	0.50		1.6
77168	1,1-DICHLOROPROPENE	ND	ug/L	0.50		1.6
77613	1,2,3-TRICHLOROBENZENE	ND	ug/L	0.50		1.6
77443	1,2,3-TRICHLOROPROPANE	ND	ug/L	1.0		3.2
34551	1,2,4-TRICHLOROBENZENE	ND	ug/L	0.50		1.6
77222	1,2,4-TRIMETHYLBENZENE	ND	ug/L	0.20		0.64
38437	1,2-DIBROMO-3- CHLOROPROPANE	ND	ug/L	1.0		3.2
77651	1,2-DIBROMOETHANE	ND	ug/L	0.50		1.6
34536	1,2-DICHLOROBENZENE	ND	ug/L	0.25		0.80
34531	1,2-DICHLOROETHANE	ND	ug/L	0.50		1.6
77093	1,2-DICHLOROETHYLENE CIS	0.85	ug/L	0.30		0.95
34546	1,2-DICHLOROETHYLENE TRANS	ND	ug/L	0.50		1.6
34541	1,2-DICHLOROPROPANE	ND	ug/L	0.50		1.6

## Wisconsin Department of Natural Resources

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01/05/2018

Lab: 113133790

Sample: 359507002

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<i>Code</i>	<i>Description</i>	<i>Result</i>	<i>Units</i>	<i>LOD</i>	<i>Report Limit</i>	<i>LOQ</i>
77226	1,3,5-TRIMETHYLBENZENE	ND	ug/L	0.20		0.64
34566	1,3-DICHLOROBENZENE	ND	ug/L	0.25		0.80
77173	1,3-DICHLOROPROPANE	ND	ug/L	0.30		0.95
34704	1,3-DICHLOROPROPENE-CIS	ND	ug/L	0.30		0.95
34699	1,3-DICHLOROPROPENE-TRANS	ND	ug/L	0.50		1.6
34571	1,4-DICHLOROBENZENE	ND	ug/L	0.25		0.80
77170	2,2-DICHLOROPROPANE	ND	ug/L	0.50		1.6
77275	2-CHLOROTOLUENE	ND	ug/L	0.30		0.95
81552	ACETONE	ND	ug/L	3.0		9.5
34030	BENZENE	ND	ug/L	0.30		0.95
81555	BROMOBENZENE	ND	ug/L	0.50		1.6
77297	BROMOCHLOROMETHANE	ND	ug/L	0.50		1.6
32101	BROMODICHLOROMETHANE	ND	ug/L	0.50		1.6
32104	BROMOFORM	ND	ug/L	1.0		3.2
34413	BROMOMETHANE	ND	ug/L	0.50		1.6
77350	BUTYLBENZENE SEC	ND	ug/L	0.20		0.64
77353	BUTYLBENZENE TERT	ND	ug/L	0.50		1.6
77041	CARBON DISULFIDE	ND	ug/L	0.30		0.95
32102	CARBON TETRACHLORIDE	ND	ug/L	0.50		1.6
34301	CHLOROBENZENE	ND	ug/L	0.25		0.80
34311	CHLOROETHANE	ND	ug/L	0.50		1.6
32106	CHLOROFORM	ND	ug/L	0.25		0.80
34418	CHLOROMETHANE	ND	ug/L	1.0		3.2
32105	DIBROMOCHLOROMETHANE	ND	ug/L	0.50		1.6
77596	DIBROMOMETHANE	ND	ug/L	0.50		1.6
34668	DICHLORODIFLUOROMETHANE	ND	ug/L	0.50		1.6
81577	DIISOPROPYL ETHER	ND	ug/L	0.25		0.80
34371	ETHYLBENZENE	ND	ug/L	0.20		0.64
34391	HEXACHLOROBUTADIENE	ND	ug/L	0.50		1.6
81590	HEXANE, MIXTURE OF ISOMERS	ND	ug/L	0.50		1.6
77223	ISOPROPYLBENZENE	ND	ug/L	0.20		0.64
85795	M/P-XYLENE	ND	ug/L	0.40		1.3
81595	METHYL ETHYL KETONE	ND	ug/L	3.0		9.5
78133	METHYL ISOBUTYL KETONE	ND	ug/L	2.0		6.4

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/05/2018

Lab: 113133790

Sample: 359507002

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<i>Code</i>	<i>Description</i>	<i>Result</i>	<i>Units</i>	<i>LOD</i>	<i>Report Limit</i>	<i>LOQ</i>
	(MIBK)					
78032	METHYL TERT BUTYL ETHER	ND	ug/L	0.30		0.95
34423	METHYLENE CHLORIDE	ND	ug/L	0.50		1.6
77342	N-BUTYLBENZENE	ND	ug/L	0.20		0.64
77224	N-PROPYLBENZENE	ND	ug/L	0.20		0.64
34696	NAPHTHALENE	ND	ug/L	0.30		0.95
77135	O-XYLENE	ND	ug/L	0.30		0.95
77277	P-CHLOROTOLUENE	ND	ug/L	0.30		0.95
77356	P-ISOPROPYLTOLUENE	ND	ug/L	0.20		0.64
77128	STYRENE	ND	ug/L	0.25		0.80
34475	TETRACHLOROETHYLENE	ND	ug/L	0.50		1.6
81607	TETRAHYDROFURAN	ND	ug/L	2.0		6.4
34010	TOLUENE	ND	ug/L	0.25		0.80
39180	TRICHLOROETHYLENE	ND	ug/L	0.50		1.6
34488	TRICHLOROFLUOROMETHANE	ND	ug/L	0.50		1.6
81611	TRICHLOROTRIFLUOROETHANE	ND	ug/L	0.50		1.6
	<i>Comment: The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.</i>					
39175	VINYL CHLORIDE	0.55	ug/L	0.20		0.64



January 9, 2018

David & Nancy Meyer  
3203 S. 26th St  
Manitowoc, WI 54220

Subject: Well Water Sample Results from Area Sampling for  
3203 South 26th Street, Town of Manitowoc, Wisconsin

Dear David and Nancy Meyer,

As part of the representative area sampling completed by the Department of Natural Resources (DNR), the results have been received for the water sample collected from your private well on December 19, 2017. The water sample was analyzed for volatile organic compounds (VOCs). The primary contaminants DNR is concerned with in the area are chlorinated solvents, specifically cis-1,2-dichloroethylene and vinyl chloride, because these have been detected in other private wells in the area.

The laboratory test included analysis of 68 VOCs. There were no VOCs detected in your well water sample. A summary of the attached lab report for the two contaminants of concern stated above is:

<u>Contaminant</u>	<u>Lab Result</u>	<u>Drinking Water Standard</u>
cis-1,2-dichloroethylene	0.0 ug/L	70 ug/L
vinyl chloride	0.0 ug/L	0.20 ug/L

ug/L = micrograms per liter or parts per billion (ppb)

Please refer to the laboratory report attached to this letter for the full list of VOCs analyzed. The Drinking Water Standard (aka the Enforcement Standard) is the contaminant concentration at which the water is not safe to drink. Since no VOCs were detected, your well water is considered safe to drink and use. Please remember that your water was only tested for VOCs as part of this representative area sampling. As good practice, DNR generally recommends that private well owners sample their well annually for bacteria, nitrates and arsenic.

If you have any questions about your well water results, please contact me at 715-579-9729.

Sincerely,

A handwritten signature in black ink that reads "Jim H. Kasdorf". The signature is written in a cursive style.

Jim Kasdorf  
Bureau of Drinking Water and Groundwater

cc: Marty Nessman – WDNR  
Tauren Beggs – WDNR

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201007

Page 1 of 3

**Laboratory:** Wisconsin State Laboratory of Hygiene  
2601 Agriculture Dr  
Madison WI 53718  
Phone : 800-442-4618 Fax Phone : 608-224-6213

DNR ID 113133790

**Sample:**

Field #: DAVE MEYER  
Collection Start: 12/19/2017 04:30 pm  
Collected by: JIM KASDORF  
ID #:  
County: Manitowoc  
Sample Location: 3203 SOUTH 26TH STREET  
Sample Description: PRIVATE WELL SAMPLE  
Sample Source: Private (other)  
Date Reported: 01/02/2018  
Project No:  
Comment: Trip Blank broken upon receipt

Sample #: 360201007  
Collection End: 12/19/2017 05:00 pm  
Waterbody/Outfall Id:  
ID Point #: TAP BASEMENT  
Account #: RR051  
Sample Depth:  
Sample Status: COMPLETE  
Sample Reason:

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment			
EPA 8260B in Water		12/21/2017				
Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34506	1,1,1-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34516	1,1,2,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34511	1,1,2-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34496	1,1-DICHLOROETHANE	0.0	ug/L	0.30		0.95
34501	1,1-DICHLOROETHYLENE	0.0	ug/L	0.50		1.6
77168	1,1-DICHLOROPROPENE	0.0	ug/L	0.50		1.6
77613	1,2,3-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77443	1,2,3-TRICHLOROPROPANE	0.0	ug/L	1.0		3.2
34551	1,2,4-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77222	1,2,4-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
38437	1,2-DIBROMO-3-CHLOROPROPANE	0.0	ug/L	1.0		3.2
77651	1,2-DIBROMOETHANE	0.0	ug/L	0.50		1.6
34536	1,2-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
34531	1,2-DICHLOROETHANE	0.0	ug/L	0.50		1.6
77093	1,2-DICHLOROETHYLENE CIS	0.0	ug/L	0.30		0.95
34546	1,2-DICHLOROETHYLENE TRANS	0.0	ug/L	0.50		1.6
34541	1,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6

## Wisconsin Department of Natural Resources

## Laboratory Report

01/03/2018

Lab: 113133790

Sample: 360201007

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Code	Description	Result	Units	LOD	Report Limit	LOQ
77226	1,3,5-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
34566	1,3-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77173	1,3-DICHLOROPROPANE	0.0	ug/L	0.30		0.95
34704	1,3-DICHLOROPROPENE-CIS	0.0	ug/L	0.30		0.95
34699	1,3-DICHLOROPROPENE-TRANS	0.0	ug/L	0.50		1.6
34571	1,4-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77170	2,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6
77275	2-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
81552	ACETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					
34030	BENZENE	0.0	ug/L	0.30		0.95
81555	BROMOBENZENE	0.0	ug/L	0.50		1.6
77297	BROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
32101	BROMODICHLOROMETHANE	0.0	ug/L	0.50		1.6
32104	BROMOFORM	0.0	ug/L	1.0		3.2
34413	BROMOMETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
77350	BUTYLBENZENE SEC	0.0	ug/L	0.20		0.64
77353	BUTYLBENZENE TERT	0.0	ug/L	0.50		1.6
77041	CARBON DISULFIDE	0.0	ug/L	0.30		0.95
32102	CARBON TETRACHLORIDE	0.0	ug/L	0.50		1.6
34301	CHLOROBENZENE	0.0	ug/L	0.25		0.80
34311	CHLOROETHANE	0.0	ug/L	0.50		1.6
32106	CHLOROFORM	0.0	ug/L	0.25		0.80
34418	CHLOROMETHANE	0.0	ug/L	1.0		3.2
32105	DIBROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
77596	DIBROMOMETHANE	0.0	ug/L	0.50		1.6
34668	DICHLORODIFLUOROMETHANE	0.0	ug/L	0.50		1.6
81577	DIISOPROPYL ETHER	0.0	ug/L	0.25		0.80
34371	ETHYLBENZENE	0.0	ug/L	0.20		0.64
34391	HEXACHLOROBUTADIENE	0.0	ug/L	0.50		1.6
81590	HEXANE, MIXTURE OF ISOMERS	0.0	ug/L	0.50		1.6
77223	ISOPROPYLBENZENE	0.0	ug/L	0.20		0.64

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201007

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Code	Description	Result	Units	LOD	Report Limit	LOQ
85795	M/P-XYLENE	0.0	ug/L	0.40		1.3
81595	METHYL ETHYL KETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.					
78133	METHYL ISOBUTYL KETONE (MIBK)	0.0	ug/L	2.0		6.4
78032	METHYL TERT BUTYL ETHER	0.0	ug/L	0.30		0.95
34423	METHYLENE CHLORIDE	0.0	ug/L	0.50		1.6
77342	N-BUTYLBENZENE	0.0	ug/L	0.20		0.64
77224	N-PROPYLBENZENE	0.0	ug/L	0.20		0.64
34696	NAPHTHALENE	0.0	ug/L	0.30		0.95
77135	O-XYLENE	0.0	ug/L	0.30		0.95
77277	P-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
77356	P-ISOPROPYLTOLUENE	0.0	ug/L	0.20		0.64
77128	STYRENE	0.0	ug/L	0.25		0.80
34475	TETRACHLOROETHYLENE	0.0	ug/L	0.50		1.6
81607	TETRAHYDROFURAN	0.0	ug/L	2.0		6.4
34010	TOLUENE	0.0	ug/L	0.25		0.80
39180	TRICHLOROETHYLENE	0.0	ug/L	0.50		1.6
34488	TRICHLOROFLUOROMETHANE	0.0	ug/L	0.50		1.6
81611	TRICHLOROTRIFLUOROETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					





January 9, 2018

Kaeo & Layord Kaeovongphet  
2501 Nelson Ln  
Manitowoc, WI 54220

Subject: Well Water Sample Results from Area Sampling for  
2501 Nelson Lane, Town of Manitowoc, Wisconsin

Dear Kaeo & Layord Kaeovongphet,

As part of the representative area sampling completed by the Department of Natural Resources (DNR), the results have been received for the water sample collected from your private well on December 19, 2017. The water sample was analyzed for volatile organic compounds (VOCs). The primary contaminants DNR is concerned with in the area are chlorinated solvents, specifically cis-1,2-dichloroethylene and vinyl chloride, because these have been detected in other private wells in the area.

The laboratory test included analysis of 68 VOCs. There were no VOCs detected in your well water sample. A summary of the attached lab report for the two contaminants of concern stated above is:

<u>Contaminant</u>	<u>Lab Result</u>	<u>Drinking Water Standard</u>
cis-1,2-dichloroethylene	0.0 ug/L	70 ug/L
vinyl chloride	0.0 ug/L	0.20 ug/L

ug/L = micrograms per liter or parts per billion (ppb)

Please refer to the laboratory report attached to this letter for the full list of VOCs analyzed. The Drinking Water Standard (aka the Enforcement Standard) is the contaminant concentration at which the water is not safe to drink. Since no VOCs were detected, your well water is considered safe to drink and use. Please remember that your water was only tested for VOCs as part of this representative area sampling. As good practice, DNR generally recommends that private well owners sample their well annually for bacteria, nitrates and arsenic.

If you have any questions about your well water results, please contact me at 715-579-9729.

Sincerely,

A handwritten signature in black ink, which appears to read 'Jim Kasdorf'.

Jim Kasdorf  
Bureau of Drinking Water and Groundwater

cc: Marty Nessman – WDNR  
Tauren Beggs – WDNR

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201005

Page 1 of 3

**Laboratory:** Wisconsin State Laboratory of Hygiene  
2601 Agriculture Dr  
Madison WI 53718  
Phone : 800-442-4618 Fax Phone : 608-224-6213

DNR ID 113133790

**Sample:**

Field #:	KAEO KAEOVONGPHET	Sample #:	360201005
Collection Start:	12/19/2017 02:58 pm	Collection End:	12/19/2017 03:20 pm
Collected by:	JIM KASDORF	Waterbody/Outfall Id:	
ID #:		ID Point #:	BASEMENT TAP
County:	Manitowoc	Account #:	RR051
Sample Location:	2501 NELSON LANE	Sample Depth:	
Sample Description:	PRIVATE WELL	Sample Status:	COMPLETE
Sample Source:	Private (other)	Sample Reason:	
Date Reported:	01/02/2018		
Project No:			
Comment:	Trip Blank broken upon receipt		

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment			
EPA 8260B in Water		12/21/2017				
Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34506	1,1,1-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34516	1,1,2,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34511	1,1,2-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34496	1,1-DICHLOROETHANE	0.0	ug/L	0.30		0.95
34501	1,1-DICHLOROETHYLENE	0.0	ug/L	0.50		1.6
77168	1,1-DICHLOROPROPENE	0.0	ug/L	0.50		1.6
77613	1,2,3-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77443	1,2,3-TRICHLOROPROPANE	0.0	ug/L	1.0		3.2
34551	1,2,4-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77222	1,2,4-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
38437	1,2-DIBROMO-3-CHLOROPROPANE	0.0	ug/L	1.0		3.2
77651	1,2-DIBROMOETHANE	0.0	ug/L	0.50		1.6
34536	1,2-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
34531	1,2-DICHLOROETHANE	0.0	ug/L	0.50		1.6
77093	1,2-DICHLOROETHYLENE CIS	0.0	ug/L	0.30		0.95
34546	1,2-DICHLOROETHYLENE TRANS	0.0	ug/L	0.50		1.6
34541	1,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6

## Wisconsin Department of Natural Resources

## Laboratory Report

01/03/2018

Lab: 113133790

Sample: 360201005

Page 2 of 3

Code	Description	Result	Units	LOD	Report Limit	LOQ
77226	1,3,5-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
34566	1,3-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77173	1,3-DICHLOROPROPANE	0.0	ug/L	0.30		0.95
34704	1,3-DICHLOROPROPENE-CIS	0.0	ug/L	0.30		0.95
34699	1,3-DICHLOROPROPENE-TRANS	0.0	ug/L	0.50		1.6
34571	1,4-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77170	2,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6
77275	2-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
81552	ACETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					
34030	BENZENE	0.0	ug/L	0.30		0.95
81555	BROMOBENZENE	0.0	ug/L	0.50		1.6
77297	BROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
32101	BROMODICHLOROMETHANE	0.0	ug/L	0.50		1.6
32104	BROMOFORM	0.0	ug/L	1.0		3.2
34413	BROMOMETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
77350	BUTYLBENZENE SEC	0.0	ug/L	0.20		0.64
77353	BUTYLBENZENE TERT	0.0	ug/L	0.50		1.6
77041	CARBON DISULFIDE	0.0	ug/L	0.30		0.95
32102	CARBON TETRACHLORIDE	0.0	ug/L	0.50		1.6
34301	CHLOROBENZENE	0.0	ug/L	0.25		0.80
34311	CHLOROETHANE	0.0	ug/L	0.50		1.6
32106	CHLOROFORM	0.0	ug/L	0.25		0.80
34418	CHLOROMETHANE	0.0	ug/L	1.0		3.2
32105	DIBROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
77596	DIBROMOMETHANE	0.0	ug/L	0.50		1.6
34668	DICHLORODIFLUOROMETHANE	0.0	ug/L	0.50		1.6
81577	DIISOPROPYL ETHER	0.0	ug/L	0.25		0.80
34371	ETHYLBENZENE	0.0	ug/L	0.20		0.64
34391	HEXACHLOROBUTADIENE	0.0	ug/L	0.50		1.6
81590	HEXANE, MIXTURE OF ISOMERS	0.0	ug/L	0.50		1.6
77223	ISOPROPYLBENZENE	0.0	ug/L	0.20		0.64

**Wisconsin Department of Natural Resources  
Laboratory Report**

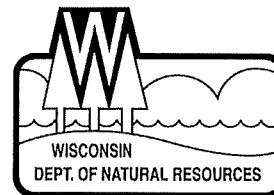
01/03/2018

Lab: 113133790

Sample: 360201005

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Code	Description	Result	Units	LOD	Report Limit	LOQ
85795	M/P-XYLENE	0.0	ug/L	0.40		1.3
81595	METHYL ETHYL KETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.					
78133	METHYL ISOBUTYL KETONE (MIBK)	0.0	ug/L	2.0		6.4
78032	METHYL TERT BUTYL ETHER	0.0	ug/L	0.30		0.95
34423	METHYLENE CHLORIDE	0.0	ug/L	0.50		1.6
77342	N-BUTYLBENZENE	0.0	ug/L	0.20		0.64
77224	N-PROPYLBENZENE	0.0	ug/L	0.20		0.64
34696	NAPHTHALENE	0.0	ug/L	0.30		0.95
77135	O-XYLENE	0.0	ug/L	0.30		0.95
77277	P-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
77356	P-ISOPROPYLTOLUENE	0.0	ug/L	0.20		0.64
77128	STYRENE	0.0	ug/L	0.25		0.80
34475	TETRACHLOROETHYLENE	0.0	ug/L	0.50		1.6
81607	TETRAHYDROFURAN	0.0	ug/L	2.0		6.4
34010	TOLUENE	0.0	ug/L	0.25		0.80
39180	TRICHLOROETHYLENE	0.0	ug/L	0.50		1.6
34488	TRICHLOROFLUOROMETHANE	0.0	ug/L	0.50		1.6
81611	TRICHLOROTRIFLUOROETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					



January 9, 2018

Robert & Jodi Love III  
2201 Elm Rd  
Manitowoc, WI 54220

Subject: Well Water Sample Results from Area Sampling for  
2201 Elm Road, Town of Manitowoc, Wisconsin

Dear Robert & Jodi Love III,

As part of the representative area sampling completed by the Department of Natural Resources (DNR), the results have been received for the water sample collected from your private well on December 19, 2017. The water sample was analyzed for volatile organic compounds (VOCs). The primary contaminants DNR is concerned with in the area are chlorinated solvents, specifically cis-1,2-dichloroethylene and vinyl chloride, because these have been detected in other private wells in the area.

The laboratory test included analysis of 68 VOCs. Cis-1,2-dichloroethylene was detected at a low concentration well below the drinking water standard. A summary of the attached lab report for the two contaminants of concern stated above is:

<u>Contaminant</u>	<u>Lab Result</u>	<u>Drinking Water Standard</u>
cis-1,2-dichloroethylene	0.51 ug/L	70 ug/L
vinyl chloride	0.0 ug/L	0.20 ug/L

ug/L = micrograms per liter or parts per billion (ppb)

Please refer to the laboratory report attached to this letter for the full list of VOCs analyzed. The Drinking Water Standard (aka the Enforcement Standard) is the contaminant concentration at which the water is not safe to drink. Since cis-1,2-dichloroethylene was detected below the drinking water standard, your well water is considered safe to drink and use. However, since cis-1,2-dichloroethylene was detected, I would like to schedule a time to return to collect a confirmation water sample. Please contact me at 715-579-9729 for sample scheduling.

Sincerely,

Jim Kasdorf  
Bureau of Drinking Water and Groundwater

cc: Marty Nessman – WDNR  
Tauren Beggs – WDNR

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201003

Page 1 of 3

**Laboratory:** Wisconsin State Laboratory of Hygiene  
2601 Agriculture Dr  
Madison WI 53718  
Phone : 800-442-4618 Fax Phone : 608-224-6213

DNR ID 113133790

**Sample:**

Field #: ROBERT LOVE	Sample #: 360201003
Collection Start: 12/19/2017 05:14 pm	Collection End: 12/19/2017 05:41 pm
Collected by: JIM KASDORF	Waterbody/Outfall Id:
ID #:	ID Point #: BASEMENT TAP
County: Manitowoc	Account #: RR051
Sample Location: 2201 ELM ROAD MANITOWOC, WI	
Sample Description: PRIVATE WELL SAMPLE	
Sample Source: Private (other)	Sample Depth:
Date Reported: 01/02/2018	Sample Status: COMPLETE
Project No:	Sample Reason:
Comment:	

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment			
EPA 8260B in Water		12/21/2017				
Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34506	1,1,1-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34516	1,1,2,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34511	1,1,2-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34496	1,1-DICHLOROETHANE	0.0	ug/L	0.30		0.95
34501	1,1-DICHLOROETHYLENE	0.0	ug/L	0.50		1.6
77168	1,1-DICHLOROPROPENE	0.0	ug/L	0.50		1.6
77613	1,2,3-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77443	1,2,3-TRICHLOROPROPANE	0.0	ug/L	1.0		3.2
34551	1,2,4-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77222	1,2,4-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
38437	1,2-DIBROMO-3-CHLOROPROPANE	0.0	ug/L	1.0		3.2
77651	1,2-DIBROMOETHANE	0.0	ug/L	0.50		1.6
34536	1,2-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
34531	1,2-DICHLOROETHANE	0.0	ug/L	0.50		1.6
77093	1,2-DICHLOROETHYLENE CIS	0.51	ug/L	0.30		0.95
34546	1,2-DICHLOROETHYLENE TRANS	0.0	ug/L	0.50		1.6
34541	1,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201003

Page 2 of 3

Code	Description	Result	Units	LOD	Report Limit	LOQ
77226	1,3,5-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
34566	1,3-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77173	1,3-DICHLOROPROPANE	0.0	ug/L	0.30		0.95
34704	1,3-DICHLOROPROPENE-CIS	0.0	ug/L	0.30		0.95
34699	1,3-DICHLOROPROPENE-TRANS	0.0	ug/L	0.50		1.6
34571	1,4-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77170	2,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6
77275	2-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
81552	ACETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					
34030	BENZENE	0.0	ug/L	0.30		0.95
81555	BROMOBENZENE	0.0	ug/L	0.50		1.6
77297	BROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
32101	BROMODICHLOROMETHANE	0.0	ug/L	0.50		1.6
32104	BROMOFORM	0.0	ug/L	1.0		3.2
34413	BROMOMETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
77350	BUTYLBENZENE SEC	0.0	ug/L	0.20		0.64
77353	BUTYLBENZENE TERT	0.0	ug/L	0.50		1.6
77041	CARBON DISULFIDE	0.0	ug/L	0.30		0.95
32102	CARBON TETRACHLORIDE	0.0	ug/L	0.50		1.6
34301	CHLOROBENZENE	0.0	ug/L	0.25		0.80
34311	CHLOROETHANE	0.0	ug/L	0.50		1.6
32106	CHLOROFORM	0.0	ug/L	0.25		0.80
34418	CHLOROMETHANE	0.0	ug/L	1.0		3.2
32105	DIBROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
77596	DIBROMOMETHANE	0.0	ug/L	0.50		1.6
34668	DICHLORODIFLUOROMETHANE	0.0	ug/L	0.50		1.6
81577	DIISOPROPYL ETHER	0.0	ug/L	0.25		0.80
34371	ETHYLBENZENE	0.0	ug/L	0.20		0.64
34391	HEXACHLOROBUTADIENE	0.0	ug/L	0.50		1.6
81590	HEXANE, MIXTURE OF ISOMERS	0.0	ug/L	0.50		1.6
77223	ISOPROPYLBENZENE	0.0	ug/L	0.20		0.64

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201003

Page 3 of 3

Code	Description	Result	Units	LOD	Report Limit	LOQ
85795	M/P-XYLENE	0.0	ug/L	0.40		1.3
81595	METHYL ETHYL KETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.					
78133	METHYL ISOBUTYL KETONE (MIBK)	0.0	ug/L	2.0		6.4
78032	METHYL TERT BUTYL ETHER	0.0	ug/L	0.30		0.95
34423	METHYLENE CHLORIDE	0.0	ug/L	0.50		1.6
77342	N-BUTYLBENZENE	0.0	ug/L	0.20		0.64
77224	N-PROPYLBENZENE	0.0	ug/L	0.20		0.64
34696	NAPHTHALENE	0.0	ug/L	0.30		0.95
77135	O-XYLENE	0.0	ug/L	0.30		0.95
77277	P-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
77356	P-ISOPROPYLTOLUENE	0.0	ug/L	0.20		0.64
77128	STYRENE	0.0	ug/L	0.25		0.80
34475	TETRACHLOROETHYLENE	0.0	ug/L	0.50		1.6
81607	TETRAHYDROFURAN	0.0	ug/L	2.0		6.4
34010	TOLUENE	0.0	ug/L	0.25		0.80
39180	TRICHLOROETHYLENE	0.0	ug/L	0.50		1.6
34488	TRICHLOROFLUOROMETHANE	0.0	ug/L	0.50		1.6
81611	TRICHLOROTRIFLUOROETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					





January 9, 2018

Nick Sieracki  
2408 Elm Rd  
Manitowoc, WI 54220

Subject: Well Water Sample Results from Area Sampling for  
2408 Elm Road, Town of Manitowoc, Wisconsin

Dear Mr. Sieracki,

As part of the representative area sampling completed by the Department of Natural Resources (DNR), the results have been received for the water sample collected from your private well on December 19, 2017. The water sample was analyzed for volatile organic compounds (VOCs). The primary contaminants DNR is concerned with in the area are chlorinated solvents, specifically cis-1,2-dichloroethylene and vinyl chloride, because these have been detected in other private wells in the area.

The laboratory test included analysis of 68 VOCs. There were no VOCs detected in your well water sample. A summary of the attached lab report for the two contaminants of concern stated above is:

<u>Contaminant</u>	<u>Lab Result</u>	<u>Drinking Water Standard</u>
cis-1,2-dichloroethylene	0.0 ug/L	70 ug/L
vinyl chloride	0.0 ug/L	0.20 ug/L

ug/L = micrograms per liter or parts per billion (ppb)

Please refer to the laboratory report attached to this letter for the full list of VOCs analyzed. The Drinking Water Standard (aka the Enforcement Standard) is the contaminant concentration at which the water is not safe to drink. Since no VOCs were detected, your well water is considered safe to drink and use. Please remember that your water was only tested for VOCs as part of this representative area sampling. As good practice, DNR generally recommends that private well owners sample their well annually for bacteria, nitrates and arsenic.

If you have any questions about your well water results, please contact me at 715-579-9729.

Sincerely,

A handwritten signature in black ink that reads 'Jim H. Kasdorf'.

Jim Kasdorf  
Bureau of Drinking Water and Groundwater

cc: Marty Nessman – WDNR  
Tauren Beggs – WDNR

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201006

Page 1 of 3

**Laboratory:** Wisconsin State Laboratory of Hygiene  
2601 Agriculture Dr  
Madison WI 53718  
Phone : 800-442-4618 Fax Phone : 608-224-6213

DNR ID 113133790

**Sample:**

Field #:	MICHAEL A SIERACKI (	Sample #:	360201006
Collection Start:	12/19/2017 03:49 pm	Collection End:	12/19/2017 04:15 pm
Collected by:	JIM KASDORF	Waterbody/Outfall Id:	
ID #:		ID Point #:	TAP BASEMENT
County:		Account #:	RR051
Sample Location:	2408 ELM ROAD MANITOWOC, WI 54220	Sample Depth:	
Sample Description:	PRIVATE WELL	Sample Status:	COMPLETE
Sample Source:	Private (other)	Sample Reason:	
Date Reported:	01/02/2018		
Project No:			
Comment:	Trip Blank broken upon receipt		

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment			
EPA 8260B in Water		12/21/2017				
Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34506	1,1,1-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34516	1,1,2,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34511	1,1,2-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34496	1,1-DICHLOROETHANE	0.0	ug/L	0.30		0.95
34501	1,1-DICHLOROETHYLENE	0.0	ug/L	0.50		1.6
77168	1,1-DICHLOROPROPENE	0.0	ug/L	0.50		1.6
77613	1,2,3-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77443	1,2,3-TRICHLOROPROPANE	0.0	ug/L	1.0		3.2
34551	1,2,4-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77222	1,2,4-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
38437	1,2-DIBROMO-3-CHLOROPROPANE	0.0	ug/L	1.0		3.2
77651	1,2-DIBROMOETHANE	0.0	ug/L	0.50		1.6
34536	1,2-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
34531	1,2-DICHLOROETHANE	0.0	ug/L	0.50		1.6
77093	1,2-DICHLOROETHYLENE CIS	0.0	ug/L	0.30		0.95
34546	1,2-DICHLOROETHYLENE TRANS	0.0	ug/L	0.50		1.6
34541	1,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201006

Page 2 of 3

Code	Description	Result	Units	LOD	Report Limit	LOQ
77226	1,3,5-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
34566	1,3-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77173	1,3-DICHLOROPROPANE	0.0	ug/L	0.30		0.95
34704	1,3-DICHLOROPROPENE-CIS	0.0	ug/L	0.30		0.95
34699	1,3-DICHLOROPROPENE-TRANS	0.0	ug/L	0.50		1.6
34571	1,4-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77170	2,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6
77275	2-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
81552	ACETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					
34030	BENZENE	0.0	ug/L	0.30		0.95
81555	BROMOBENZENE	0.0	ug/L	0.50		1.6
77297	BROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
32101	BROMODICHLOROMETHANE	0.0	ug/L	0.50		1.6
32104	BROMOFORM	0.0	ug/L	1.0		3.2
34413	BROMOMETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
77350	BUTYLBENZENE SEC	0.0	ug/L	0.20		0.64
77353	BUTYLBENZENE TERT	0.0	ug/L	0.50		1.6
77041	CARBON DISULFIDE	0.0	ug/L	0.30		0.95
32102	CARBON TETRACHLORIDE	0.0	ug/L	0.50		1.6
34301	CHLOROBENZENE	0.0	ug/L	0.25		0.80
34311	CHLOROETHANE	0.0	ug/L	0.50		1.6
32106	CHLOROFORM	0.0	ug/L	0.25		0.80
34418	CHLOROMETHANE	0.0	ug/L	1.0		3.2
32105	DIBROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
77596	DIBROMOMETHANE	0.0	ug/L	0.50		1.6
34668	DICHLORODIFLUOROMETHANE	0.0	ug/L	0.50		1.6
81577	DIISOPROPYL ETHER	0.0	ug/L	0.25		0.80
34371	ETHYLBENZENE	0.0	ug/L	0.20		0.64
34391	HEXACHLOROBUTADIENE	0.0	ug/L	0.50		1.6
81590	HEXANE, MIXTURE OF ISOMERS	0.0	ug/L	0.50		1.6
77223	ISOPROPYLBENZENE	0.0	ug/L	0.20		0.64

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201006

Page 3 of 3

<i>Code</i>	<i>Description</i>	<i>Result</i>	<i>Units</i>	<i>LOD</i>	<i>Report Limit</i>	<i>LOQ</i>
85795	M/P-XYLENE	0.0	ug/L	0.40		1.3
81595	METHYL ETHYL KETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.					
78133	METHYL ISOBUTYL KETONE (MIBK)	0.0	ug/L	2.0		6.4
78032	METHYL TERT BUTYL ETHER	0.0	ug/L	0.30		0.95
34423	METHYLENE CHLORIDE	0.0	ug/L	0.50		1.6
77342	N-BUTYLBENZENE	0.0	ug/L	0.20		0.64
77224	N-PROPYLBENZENE	0.0	ug/L	0.20		0.64
34696	NAPHTHALENE	0.0	ug/L	0.30		0.95
77135	O-XYLENE	0.0	ug/L	0.30		0.95
77277	P-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
77356	P-ISOPROPYLTOLUENE	0.0	ug/L	0.20		0.64
77128	STYRENE	0.0	ug/L	0.25		0.80
34475	TETRACHLOROETHYLENE	0.0	ug/L	0.50		1.6
81607	TETRAHYDROFURAN	0.0	ug/L	2.0		6.4
34010	TOLUENE	0.0	ug/L	0.25		0.80
39180	TRICHLOROETHYLENE	0.0	ug/L	0.50		1.6
34488	TRICHLOROFLUOROMETHANE	0.0	ug/L	0.50		1.6
81611	TRICHLOROTRIFLUOROETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					



January 9, 2018

Larry Sonnenburg  
2417 Elm Rd  
Manitowoc, WI 54220

Subject: Well Water Sample Results from Area Sampling for  
2417 Elm Rd, Town of Manitowoc, Wisconsin

Dear Mr. Sonnenburg,

As part of the representative area sampling completed by the Department of Natural Resources (DNR), the results have been received for the water sample collected from your private well on December 19, 2017. The water sample was analyzed for volatile organic compounds (VOCs). The primary contaminants DNR is concerned with in the area are chlorinated solvents, specifically cis-1,2-dichloroethylene and vinyl chloride, because these have been detected in other private wells in the area.

The laboratory test included analysis of 68 VOCs. There were no VOCs detected in your well water sample. A summary of the attached lab report for the two contaminants of concern stated above is:

<u>Contaminant</u>	<u>Lab Result</u>	<u>Drinking Water Standard</u>
cis-1,2-dichloroethylene	0.0 ug/L	70 ug/L
vinyl chloride	0.0 ug/L	0.20 ug/L

ug/L = micrograms per liter or parts per billion (ppb)

Please refer to the laboratory report attached to this letter for the full list of VOCs analyzed. The Drinking Water Standard (aka the Enforcement Standard) is the contaminant concentration at which the water is not safe to drink. Since no VOCs were detected, your well water is considered safe to drink and use. Please remember that your water was only tested for VOCs as part of this representative area sampling. As good practice, DNR generally recommends that private well owners sample their well annually for bacteria, nitrates and arsenic.

If you have any questions about your well water results, please contact me at 715-579-9729.

Sincerely,

A handwritten signature in black ink, which appears to read 'Jim Kasdorf'.

Jim Kasdorf  
Bureau of Drinking Water and Groundwater

cc: Marty Nessman – WDNR  
Tauren Beggs – WDNR

**Wisconsin Department of Natural Resources  
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201002

Page 1 of 3

**Laboratory:** Wisconsin State Laboratory of Hygiene  
2601 Agriculture Dr  
Madison WI 53718  
Phone : 800-442-4618 Fax Phone : 608-224-6213

DNR ID 113133790

**Sample:**

Field #:	LARRY SONNENBURG	Sample #:	360201002
Collection Start:	12/19/2017 05:50 pm	Collection End:	12/19/2017 06:16 pm
Collected by:	JIM KASDORF	Waterbody/Outfall Id:	
ID #:		ID Point #:	BASEMENT TAP
County:	Manitowoc	Account #:	RR051
Sample Location:	2417 ELM ROAD MANITOWOC, WI		
Sample Description:	PRIVATE WELL SAMPLE		
Sample Source:	Private (other)	Sample Depth:	
Date Reported:	01/02/2018	Sample Status:	COMPLETE
Project No:		Sample Reason:	
Comment:			

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment			
EPA 8260B in Water		12/21/2017				
Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34506	1,1,1-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34516	1,1,2,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34511	1,1,2-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34496	1,1-DICHLOROETHANE	0.0	ug/L	0.30		0.95
34501	1,1-DICHLOROETHYLENE	0.0	ug/L	0.50		1.6
77168	1,1-DICHLOROPROPENE	0.0	ug/L	0.50		1.6
77613	1,2,3-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77443	1,2,3-TRICHLOROPROPANE	0.0	ug/L	1.0		3.2
34551	1,2,4-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77222	1,2,4-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
38437	1,2-DIBROMO-3-CHLOROPROPANE	0.0	ug/L	1.0		3.2
77651	1,2-DIBROMOETHANE	0.0	ug/L	0.50		1.6
34536	1,2-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
34531	1,2-DICHLOROETHANE	0.0	ug/L	0.50		1.6
77093	1,2-DICHLOROETHYLENE CIS	0.0	ug/L	0.30		0.95
34546	1,2-DICHLOROETHYLENE TRANS	0.0	ug/L	0.50		1.6
34541	1,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6

## Wisconsin Department of Natural Resources

## Laboratory Report

01/03/2018

Lab: 113133790

Sample: 360201002

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Code	Description	Result	Units	LOD	Report Limit	LOQ
77226	1,3,5-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
34566	1,3-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77173	1,3-DICHLOROPROPANE	0.0	ug/L	0.30		0.95
34704	1,3-DICHLOROPROPENE-CIS	0.0	ug/L	0.30		0.95
34699	1,3-DICHLOROPROPENE-TRANS	0.0	ug/L	0.50		1.6
34571	1,4-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77170	2,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6
77275	2-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
81552	ACETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					
34030	BENZENE	0.0	ug/L	0.30		0.95
81555	BROMOBENZENE	0.0	ug/L	0.50		1.6
77297	BROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
32101	BROMODICHLOROMETHANE	0.0	ug/L	0.50		1.6
32104	BROMOFORM	0.0	ug/L	1.0		3.2
34413	BROMOMETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
77350	BUTYLBENZENE SEC	0.0	ug/L	0.20		0.64
77353	BUTYLBENZENE TERT	0.0	ug/L	0.50		1.6
77041	CARBON DISULFIDE	0.0	ug/L	0.30		0.95
32102	CARBON TETRACHLORIDE	0.0	ug/L	0.50		1.6
34301	CHLOROBENZENE	0.0	ug/L	0.25		0.80
34311	CHLOROETHANE	0.0	ug/L	0.50		1.6
32106	CHLOROFORM	0.0	ug/L	0.25		0.80
34418	CHLOROMETHANE	0.0	ug/L	1.0		3.2
32105	DIBROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
77596	DIBROMOMETHANE	0.0	ug/L	0.50		1.6
34668	DICHLORODIFLUOROMETHANE	0.0	ug/L	0.50		1.6
81577	DIISOPROPYL ETHER	0.0	ug/L	0.25		0.80
34371	ETHYLBENZENE	0.0	ug/L	0.20		0.64
34391	HEXACHLOROBUTADIENE	0.0	ug/L	0.50		1.6
81590	HEXANE, MIXTURE OF ISOMERS	0.0	ug/L	0.50		1.6
77223	ISOPROPYLBENZENE	0.0	ug/L	0.20		0.64

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Code	Description	Result	Units	LOD	Report Limit	LOQ
85795	M/P-XYLENE	0.0	ug/L	0.40		1.3
81595	METHYL ETHYL KETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.					
78133	METHYL ISOBUTYL KETONE (MIBK)	0.0	ug/L	2.0		6.4
78032	METHYL TERT BUTYL ETHER	0.0	ug/L	0.30		0.95
34423	METHYLENE CHLORIDE	0.0	ug/L	0.50		1.6
77342	N-BUTYLBENZENE	0.0	ug/L	0.20		0.64
77224	N-PROPYLBENZENE	0.0	ug/L	0.20		0.64
34696	NAPHTHALENE	0.0	ug/L	0.30		0.95
77135	O-XYLENE	0.0	ug/L	0.30		0.95
77277	P-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
77356	P-ISOPROPYLTOLUENE	0.0	ug/L	0.20		0.64
77128	STYRENE	0.0	ug/L	0.25		0.80
34475	TETRACHLOROETHYLENE	0.0	ug/L	0.50		1.6
81607	TETRAHYDROFURAN	0.0	ug/L	2.0		6.4
34010	TOLUENE	0.0	ug/L	0.25		0.80
39180	TRICHLOROETHYLENE	0.0	ug/L	0.50		1.6
34488	TRICHLOROFLUOROMETHANE	0.0	ug/L	0.50		1.6
81611	TRICHLOROTRIFLUOROETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					





January 9, 2018

Joseph Higgins  
2514 Elm Rd  
Manitowoc, WI 54220

Subject: Well Water Sample Results from Area Sampling for  
2514 Elm Rd, Town of Manitowoc, Wisconsin

Dear Mr. Higgins,

As part of the representative area sampling completed by the Department of Natural Resources (DNR), the results have been received for the water sample collected from your private well on December 19, 2017. The water sample was analyzed for volatile organic compounds (VOCs). The primary contaminants DNR is concerned with in the area are chlorinated solvents, specifically cis-1,2-dichloroethylene and vinyl chloride, because these have been detected in other private wells in the area.

The laboratory test included analysis of 68 VOCs. There were no VOCs detected in your well water sample. A summary of the attached lab report for the two contaminants of concern stated above is:

<u>Contaminant</u>	<u>Lab Result</u>	<u>Drinking Water Standard</u>
cis-1,2-dichloroethylene	0.0 ug/L	70 ug/L
vinyl chloride	0.0 ug/L	0.20 ug/L

ug/L = micrograms per liter or parts per billion (ppb)

Please refer to the laboratory report attached to this letter for the full list of VOCs analyzed. The Drinking Water Standard (aka the Enforcement Standard) is the contaminant concentration at which the water is not safe to drink. Since no VOCs were detected, your well water is considered safe to drink and use. Please remember that your water was only tested for VOCs as part of this representative area sampling. As good practice, DNR generally recommends that private well owners sample their well annually for bacteria, nitrates and arsenic.

If you have any questions about your well water results, please contact me at 715-579-9729.

Sincerely,

A handwritten signature in black ink that reads "Jim Kasdorf".

Jim Kasdorf  
Bureau of Drinking Water and Groundwater

cc: Marty Nessman – WDNR  
Tauren Beggs – WDNR

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Sample: 360201001

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**Laboratory:** Wisconsin State Laboratory of Hygiene  
2601 Agriculture Dr  
Madison WI 53718  
Phone : 800-442-4618 Fax Phone : 608-224-6213

DNR ID 113133790

**Sample:**

Field #:	JOSEPH HIGGINS	Sample #:	360201001
Collection Start:	12/19/2017 06:50 am	Collection End:	12/19/2017 07:14 pm
Collected by:	JIM KASDORF	Waterbody/Outfall Id:	
ID #:		ID Point #:	BASEMENT TAP
County:	Manitowoc	Account #:	RR051
Sample Location:	2514 ELM ROAD		
Sample Description:	BASEMENT SAMPLE TAPMANITOWOC, WI		
Sample Source:	Private (other)	Sample Depth:	
Date Reported:	01/02/2018	Sample Status:	COMPLETE
Project No:		Sample Reason:	
Comment:			

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment			
EPA 8260B in Water		12/21/2017				
Code	Description	Result	Units	LOD	Report Limit	LOQ
77562	1,1,1,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34506	1,1,1-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34516	1,1,2,2-TETRACHLOROETHANE	0.0	ug/L	0.50		1.6
34511	1,1,2-TRICHLOROETHANE	0.0	ug/L	0.50		1.6
34496	1,1-DICHLOROETHANE	0.0	ug/L	0.30		0.95
34501	1,1-DICHLOROETHYLENE	0.0	ug/L	0.50		1.6
77168	1,1-DICHLOROPROPENE	0.0	ug/L	0.50		1.6
77613	1,2,3-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77443	1,2,3-TRICHLOROPROPANE	0.0	ug/L	1.0		3.2
34551	1,2,4-TRICHLOROBENZENE	0.0	ug/L	0.50		1.6
77222	1,2,4-TRIMETHYLBENZENE	0.0	ug/L	0.20		0.64
38437	1,2-DIBROMO-3- CHLOROPROPANE	0.0	ug/L	1.0		3.2
77651	1,2-DIBROMOETHANE	0.0	ug/L	0.50		1.6
34536	1,2-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
34531	1,2-DICHLOROETHANE	0.0	ug/L	0.50		1.6
77093	1,2-DICHLOROETHYLENE CIS	0.0	ug/L	0.30		0.95
34546	1,2-DICHLOROETHYLENE TRANS	0.0	ug/L	0.50		1.6
34541	1,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6

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Code	Description	Result	Units	LOD	Report Limit	LOQ
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34566	1,3-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77173	1,3-DICHLOROPROPANE	0.0	ug/L	0.30		0.95
34704	1,3-DICHLOROPROPENE-CIS	0.0	ug/L	0.30		0.95
34699	1,3-DICHLOROPROPENE-TRANS	0.0	ug/L	0.50		1.6
34571	1,4-DICHLOROBENZENE	0.0	ug/L	0.25		0.80
77170	2,2-DICHLOROPROPANE	0.0	ug/L	0.50		1.6
77275	2-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
81552	ACETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					
34030	BENZENE	0.0	ug/L	0.30		0.95
81555	BROMOBENZENE	0.0	ug/L	0.50		1.6
77297	BROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
32101	BROMODICHLOROMETHANE	0.0	ug/L	0.50		1.6
32104	BROMOFORM	0.0	ug/L	1.0		3.2
34413	BROMOMETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
77350	BUTYLBENZENE SEC	0.0	ug/L	0.20		0.64
77353	BUTYLBENZENE TERT	0.0	ug/L	0.50		1.6
77041	CARBON DISULFIDE	<0.69	ug/L	0.30		0.95
	<i>Comment:</i> Interference					
32102	CARBON TETRACHLORIDE	0.0	ug/L	0.50		1.6
34301	CHLOROBENZENE	0.0	ug/L	0.25		0.80
34311	CHLOROETHANE	0.0	ug/L	0.50		1.6
32106	CHLOROFORM	0.0	ug/L	0.25		0.80
34418	CHLOROMETHANE	0.0	ug/L	1.0		3.2
32105	DIBROMOCHLOROMETHANE	0.0	ug/L	0.50		1.6
77596	DIBROMOMETHANE	0.0	ug/L	0.50		1.6
34668	DICHLORODIFLUOROMETHANE	0.0	ug/L	0.50		1.6
81577	DIISOPROPYL ETHER	0.0	ug/L	0.25		0.80
34371	ETHYLBENZENE	0.0	ug/L	0.20		0.64
34391	HEXACHLOROBUTADIENE	0.0	ug/L	0.50		1.6
81590	HEXANE, MIXTURE OF ISOMERS	0.0	ug/L	0.50		1.6

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Sample: 360201001

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85795	M/P-XYLENE	0.0	ug/L	0.40		1.3
81595	METHYL ETHYL KETONE	0.0	ug/L	3.0		9.5
	<i>Comment:</i> The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.					
78133	METHYL ISOBUTYL KETONE (MIBK)	0.0	ug/L	2.0		6.4
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77342	N-BUTYLBENZENE	0.0	ug/L	0.20		0.64
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34696	NAPHTHALENE	0.0	ug/L	0.30		0.95
77135	O-XYLENE	0.0	ug/L	0.30		0.95
77277	P-CHLOROTOLUENE	0.0	ug/L	0.30		0.95
77356	P-ISOPROPYLTOLUENE	0.0	ug/L	0.20		0.64
77128	STYRENE	0.0	ug/L	0.25		0.80
34475	TETRACHLOROETHYLENE	0.0	ug/L	0.50		1.6
81607	TETRAHYDROFURAN	0.0	ug/L	2.0		6.4
34010	TOLUENE	0.0	ug/L	0.25		0.80
39180	TRICHLOROETHYLENE	0.0	ug/L	0.50		1.6
34488	TRICHLOROFLUOROMETHANE	0.0	ug/L	0.50		1.6
81611	TRICHLOROTRIFLUOROETHANE	0.0	ug/L	0.50		1.6
	<i>Comment:</i> The matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.   The lab matrix spike does not meet the upper QC limit.					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment:</i> The lab matrix spike does not meet the upper QC limit.   The Upper QC limit for the calibration check is exceeded.					