

Beggs, Tauren R - DNR

From: Karen Dorow <kdorow@manitowoc.org>
Sent: Friday, January 5, 2018 7:57 AM
To: Kasdorf, James H Jr - DNR; Beggs, Tauren R - DNR
Cc: GravelPit
Subject: RE: Testing Results

Thank you Jim for forwarding all of the results!

Karen

From: Kasdorf, James H Jr - DNR [<mailto:James.KasdorfJr@wisconsin.gov>]
Sent: Friday, January 05, 2018 6:45 AM
To: Beggs, Tauren R - DNR; Karen Dorow
Cc: GravelPit
Subject: RE: Testing Results

Attached, please find the December 14, 2017, laboratory reports for Anita Moore and Levi Wagner. There are no other sample reports that we are currently waiting for. Thank you.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jim Kasdorf

Phone: (920) 387-7872

James.KasdorfJr@Wisconsin.gov

From: Kasdorf, James H Jr - DNR
Sent: Thursday, January 04, 2018 2:30 PM
To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>; Karen Dorow <kdorow@manitowoc.org>
Cc: GravelPit <GravelPit@manitowoc.org>
Subject: RE: Testing Results

Attached, please find the private well sample results for the samples collected on December 19, 2017.

The samples collected from Levi Wagner and Anita Moore on December 14, 2017, have not yet been released from the lab. They are expected to be released by EOB today.

- The lab reported verbally that the Levi Wagner sample was no detect.
- The lab reported verbally that the Anita Moore confirmation sample contained: Cis-1,2-DCE at 0.85 ug/l and VC at 0.55 ug/l.

Thank you.

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Jim Kasdorf

Phone: (920) 387-7872

Wisconsin Department of Natural Resources

Laboratory Report

01/05/2018

Lab: 113133790

Sample: 359507002

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53718

Phone : 800-442-4618

Fax Phone : 608-224-6213

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: Maniotowoc

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

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>
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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Code	Description	Result	Units	LOD	Report Limit	LOQ
	(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

Wisconsin Department of Natural Resources

Laboratory Report

01/05/2018

Lab: 113133790

Sample: 359507001

Page 1 of 3

Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53718

Phone : 800-442-4618

Fax Phone : 608-224-6213

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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Laboratory Report

01/05/2018

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: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					
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: 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.</i>					
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

Laboratory Report

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: The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.</i>					
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: 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.</i>					
39175	VINYL CHLORIDE	ND	ug/L	0.20		0.64
	<i>Comment: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					

Beggs, Tauren R - DNR

From: Beggs, Tauren R - DNR
Sent: Thursday, January 4, 2018 3:54 PM
To: Ales, Stephen M - DNR
Cc: Chronert, Roxanne N - DNR; Kasdorf, James H Jr - DNR; Nessman, Martin D - DNR; Burton, Kyle - DNR
Subject: RE: Town of Newton Private Well Sampling Update
Attachments: Newton Mantiowoc Private Well Samples.19Dec17.zip

Hi Steve,

Here is an update for the private well sampling in the Town of Newton and Town of Manitowoc. We received the results back for the six wells that were sampled on December 19, 2017 (lab results in attached zip file). To summarize: Five of the samples (2501 Nelson Ln, 2408 Elm Rd, 2417 Elm Rd, 2514 Elm Rd and 3203 S. 26th St) had no VOC detects. One sample at 2201 Elm Rd (furthest property east on Elm Rd) had a low level cis-1,2-dichloroethylene detect well below the PAL. Please refer to the aerial map below in my previous email to you for the property locations.

The two samples collected from 2915 S. 26th St (corner of Nelson Lane and S. 26th St) and 3008 S. 26th St (confirmation sample) on December 14, 2017, have not yet been released from the lab. They are expected to be released by EOB today.

- The lab reported verbally that the 2915 S. 26th St sample was no detect.
- The lab reported verbally that the 3008 S. 26th St confirmation sample contained: Cis-1,2-DCE at 0.85 ug/l and VC at 0.55 ug/l, which confirms the initial ES exceedance for vinyl chloride.

I talked to Jim and Roxanne briefly today about the results and next steps. From our discussions, I have the following comments:

- For sample result notifications, I will put together cover letters with the lab results attached to mail out to the residents that have been sampled. For consistency, I propose it is signed by Jim after he has had a chance to review them, since the rest of the letters that we have mailed have been signed by him.
- It is likely DNR should go collect a confirmation sample from 2201 Elm Rd to see if the cis-1,2-dichloroethylene can be confirmed. I plan to put this in the cover letter to the property owner to call DNR to schedule a time to sample.
- Should we look at sampling any additional wells in the area or look at a different approach now that we have some sampling results? So far we have sampled eight properties (eight samples) and collected one confirmation sample. With the eight properties DNR has sampled and a sample collected by the owner at 2918 S. 26th St (confirmation sample completed by the City of Manitowoc), there have been nine properties sampled to representatively screen the area.
- For 3008 S. 26th St, the City is currently providing the owner with bottled water from Culligan. We need to discuss next steps on a permanent clean water source for this property. I have my professional opinion but would like to discuss.
- Jim and I currently have a scheduled call with the City of Manitowoc next week Wednesday, January 10, 2018, so preferably we should discuss before then, if possible.

If you have any questions, feel free to give me a call.

Thanks,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Tauren R. Beggs

Phone: (920) 662-5178

Tauren.Beggs@wisconsin.gov

Beggs, Tauren R - DNR

From: Kasdorf, James H Jr - DNR
Sent: Thursday, January 4, 2018 2:30 PM
To: Beggs, Tauren R - DNR; Karen Dorow
Cc: GravelPit
Subject: RE: Testing Results
Attachments: Newton Mantiowoc Private Well Samples.19Dec17.zip

Attached, please find the private well sample results for the samples collected on December 19, 2017.

The samples collected from Levi Wagner and Anita Moore on December 14, 2017, have not yet been released from the lab. They are expected to be released by EOB today.

- The lab reported verbally that the Levi Wagner sample was no detect.
- The lab reported verbally that the Anita Moore confirmation sample contained: Cis-1,2-DCE at 0.85 ug/l and VC at 0.55 ug/l.

Thank you.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jim Kasdorf

Phone: (920) 387-7872

James.KasdorfJr@Wisconsin.gov

Wisconsin Department of Natural Resources

Laboratory Report

01/03/2018

Lab: 113133790

Sample: 360201007

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53718

Phone : 800-442-4618

Fax Phone : 608-224-6213

Sample:

Field #: DAVE MEYER

Sample #: 360201007

Collection Start: 12/19/2017 04:30 pm

Collection End: 12/19/2017 05:00 pm

Collected by: JIM KASDORF

Waterbody/Outfall Id:

ID #:

ID Point #: TAP BASEMENT

County: Manitoowoc

Account #: RR051

Sample Location: 3203 SOUTH 26TH STREET

Sample Description: PRIVATE WELL SAMPLE

Sample Source: Private (other)

Sample Depth:

Date Reported: 01/02/2018

Sample Status: COMPLETE

Project No:

Sample Reason:

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: 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: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					
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: 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.</i>					
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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Lab: 113133790

Sample: 360201007

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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>
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: The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.</i>					
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: 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.</i>					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					

Wisconsin Department of Natural Resources

Laboratory Report

01/03/2018

Lab: 113133790

Sample: 360201001

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53718

Phone : 800-442-4618

Fax Phone : 608-224-6213

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

**Wisconsin Department of Natural Resources
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201001

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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: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					
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: 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.</i>					
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: Interference</i>					
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

Wisconsin Department of Natural Resources

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Lab: 113133790

Sample: 360201001

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Code	Description	Result	Units	LOD	Report Limit	LOQ
77223	ISOPROPYLBENZENE	0.0	ug/L	0.20		0.64
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.					

Wisconsin Department of Natural Resources

Laboratory Report

01/03/2018

Lab: 113133790

Sample: 360201005

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53718

Phone : 800-442-4618

Fax Phone : 608-224-6213

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 Description: **PRIVATE WELL**

Sample Source: **Private (other)**

Sample Depth:

Date Reported: **01/02/2018**

Sample Status: **COMPLETE**

Project No:

Sample Reason:

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

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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: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					
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: 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.</i>					
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

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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: The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.</i>					
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: 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.</i>					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					

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Laboratory Report

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Lab: 113133790

Sample: 360201002

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53718

Phone : 800-442-4618

Fax Phone : 608-224-6213

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: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					
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: 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.</i>					
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: 360201002

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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: The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.</i>					
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: 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.</i>					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					

Wisconsin Department of Natural Resources

Laboratory Report

01/03/2018

Lab: 113133790

Sample: 360201006

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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 #: 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 Description: PRIVATE WELL	
Sample Source: Private (other)	Sample Depth:
Date Reported: 01/02/2018	Sample Status: COMPLETE
Project No:	Sample Reason:
Comment: Trip Blank broken upon receipt	

Analyses and Results:

Analysis Method	Analysis Date	Lab Comment
EPA 8260B in Water	12/21/2017	
<i>Code Description</i>	<i>Result</i>	<i>Units</i>
77562 1,1,1,2-TETRACHLOROETHANE	0.0	ug/L
34506 1,1,1-TRICHLOROETHANE	0.0	ug/L
34516 1,1,2,2-TETRACHLOROETHANE	0.0	ug/L
34511 1,1,2-TRICHLOROETHANE	0.0	ug/L
34496 1,1-DICHLOROETHANE	0.0	ug/L
34501 1,1-DICHLOROETHYLENE	0.0	ug/L
77168 1,1-DICHLOROPROPENE	0.0	ug/L
77613 1,2,3-TRICHLOROBENZENE	0.0	ug/L
77443 1,2,3-TRICHLOROPROPANE	0.0	ug/L
34551 1,2,4-TRICHLOROBENZENE	0.0	ug/L
77222 1,2,4-TRIMETHYLBENZENE	0.0	ug/L
38437 1,2-DIBROMO-3-CHLOROPROPANE	0.0	ug/L
77651 1,2-DIBROMOETHANE	0.0	ug/L
34536 1,2-DICHLOROBENZENE	0.0	ug/L
34531 1,2-DICHLOROETHANE	0.0	ug/L
77093 1,2-DICHLOROETHYLENE CIS	0.0	ug/L
34546 1,2-DICHLOROETHYLENE TRANS	0.0	ug/L
34541 1,2-DICHLOROPROPANE	0.0	ug/L

**Wisconsin Department of Natural Resources
Laboratory Report**

01/03/2018

Lab: 113133790

Sample: 360201006

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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: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					
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: 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.</i>					
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

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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: The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.</i>					
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: 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.</i>					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					

Wisconsin Department of Natural Resources

Laboratory Report

01/03/2018

Lab: 113133790

Sample: 360201003

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53718

Phone : 800-442-4618

Fax Phone : 608-224-6213

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: Maniotowoc

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

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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: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					
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: 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.</i>					
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

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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: The relative percent difference for the matrix spike and matrix spike duplicate does not meet the QC limit.</i>					
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: 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.</i>					
39175	VINYL CHLORIDE	0.0	ug/L	0.20		0.64
	<i>Comment: The lab matrix spike does not meet the upper QC limit. The Upper QC limit for the calibration check is exceeded.</i>					

Beggs, Tauren R - DNR

From: Beggs, Tauren R - DNR
Sent: Wednesday, January 3, 2018 8:38 AM
To: 'Karen Dorow'
Cc: GravelPit; Kasdorf, James H Jr - DNR
Subject: RE: Testing Results
Attachments: Water Sample Results 12-27-17.pdf

Hi Karen,

We have not received results from the lab yet for the 7 new properties we sampled and the confirmation sample collected from the Moore residence. However, one of the property owners we sampled who lives at 2408 Elm Rd collected his own sample on December 11, 2017 that he sent to the state lab and he provided those results (attached) yesterday, which I was planning on relaying to you guys today, so good timing. In discussion with the property owner, he said he recalled the well was around 155' total depth, which was information he received when his well was serviced after his father bought the house. We currently have not found a well construction record for this property so far. Good news is his well had no detects, which will be confirmed by the sample we collected once we get the results back.

Jim, do you have anything to add?

We are committed to service excellence.

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Tauren R. Beggs

Phone: (920) 662-5178

Tauren.Beggs@wisconsin.gov

From: Karen Dorow [mailto:kdorow@manitowoc.org]
Sent: Wednesday, January 3, 2018 8:26 AM
To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>; Kasdorf, James H Jr - DNR <James.KasdorfJr@wisconsin.gov>; Merry, JaNelle P - DNR <Janelle.Merry@wisconsin.gov>
Cc: GravelPit <GravelPit@manitowoc.org>
Subject: Testing Results

Good Morning Team,

Happy New Year to everyone! Just wondering if you have received any testing results from the samples that were taken before Christmas?

Karen Dorow | Business Manager
City of Manitowoc
2655 S. 35th St.
Manitowoc, WI 54220
Office (920) 686-6514
Mobile (920) 374-0404

Beggs, Tauren R - DNR

From: Thiboldeaux, Robert L - DHS
Sent: Tuesday, January 2, 2018 12:57 PM
To: Beggs, Tauren R - DNR
Cc: Yang, Sarah P - DHS
Subject: FW: Update on Town of Newton and Town of Manitowoc Private Well Sampling

Tauren, thanks for this update. I am forwarding to Dr. Sarah Yang, who will be the case lead from our office going forward. I will work with Sarah on this, so please copy me on updates. Thanks- Rob

Robert Thiboldeaux, PhD
Senior Toxicologist
Wisconsin Bureau of Environmental and Occupational Health
Department of Health Services
Mail: 1 West Wilson Street, Rm 150
Madison, WI 53701
email: robert.thiboldeaux@wi.gov
phone: 608/267-6844
fax: 608/267-4853
web: <http://www.dhs.wisconsin.gov/>

From: Beggs, Tauren R - DNR
Sent: Tuesday, January 02, 2018 11:13 AM
To: Thiboldeaux, Robert L - DHS
Subject: Update on Town of Newton and Town of Manitowoc Private Well Sampling

Hi Rob,

Jim Kasdorf and I sampled private wells in December 2017. A timeline of activities is provided below.

- December 14, 2017: Jim met with 2915 Nelson Ln (Wagner) to collect well sample. Jim and I met with 3008 S. 26th St (Moore) to discuss results and collect a confirmation sample. The City is providing Ms. Moore with bottled water from Culligan until next steps are determined.
- December 15, 2017: Second round of sample request letters and access agreements sent to homeowners. Extended mailing list to one road south of Birch (Elm Rd) due to complications with homeowner on Birch.
- December 19, 2017: Jim and I went out during the day around 2:30pm, knocked door to door. Most homeowners not home during the day. Left flyers on their doors that stated DNR sent a letter on Dec 15 that should have been received, DNR is in the area sampling and to call DNR to schedule for sampling. Jim and I returned around 4pm with a warden and were able to sample six homes: 2501 Nelson Ln, 2201 Elm Rd, 2408 Elm Rd, 2417 Elm Rd, 2514 Elm Rd and 3203 S. 26th St. See areal GIS map below for reference. The residents on Elm Rd were much more receptive to DNR sampling.

Summary: Eight private wells have been sampled by DNR to screen the area. Private well sample results for 3008 S. 26th St had an enforcement standard exceedance for vinyl chloride (0.47 ug/L). The private well sample results for the other seven wells and the confirmation sample from 3008 S. 26th St, based on the typical two week lab turnaround time, should be received either this week or next week. We received some information from the homeowners that could help Jim find the additional private well records. Jim did find a couple well records already. There appears to be wells installed in gravel and in bedrock in this area.

One of the property owners, at 2408 Elm Road, collected a well water sample on December 11, 2017 and sent it to the state lab of hygiene. The property owner provided the results to DNR this morning. He did not have any VOC detects in his well, so that was good news.

If you have any questions, please let me know.



Regards,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Tauren R. Beggs

Hydrogeologist & Northeast Region Land Recycling Expert
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2984 Shawano Ave

Green Bay, WI 54313
Phone: (920) 662-5178
Tauren.Beggs@wisconsin.gov



Beggs, Tauren R - DNR

From: Nick Sieracki <nsieracki54220@gmail.com>
Sent: Tuesday, January 2, 2018 9:04 AM
To: Beggs, Tauren R - DNR
Cc: Kasdorf, James H Jr - DNR
Subject: RE: 2408 Elm Rd. Water Results

Sounds good. Thanks for the information!

Sent from my U.S. Cellular® Smartphone

----- Original message -----

From: "Beggs, Tauren R - DNR" <Tauren.Beggs@wisconsin.gov>
Date: 1/2/18 8:27 AM (GMT-06:00)
To: Nick Sieracki <nsieracki54220@gmail.com>
Cc: "Kasdorf, James H Jr - DNR" <James.KasdorfJr@wisconsin.gov>
Subject: RE: 2408 Elm Rd. Water Results

Good morning Nick,

Thank you for sending the lab results. The results show that you have no volatile organic compounds (VOCs) detected in your well water, which is great news! We will confirm these results with the sample we took and share those lab results with you once we receive them.

The term "ND" under the result column means the analyte (aka VOC) was not detected. The "LOD" or level of detection is the smallest concentration the lab can detect the VOC at if it was detected. We were concerned with cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride. Cis-1,2-DCE was not detected and the LOD was 2.0, so that would be <2.0 ug/L. Vinyl chloride was not detected and the LOD was 0.20, so that would be <0.20 ug/L.

If you have any questions, please let me know.

Thanks and Happy New Year,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Tauren R. Beggs

Phone: (920) 662-5178

Tauren.Beggs@wisconsin.gov

From: Nick Sieracki [mailto:nsieracki54220@gmail.com]

Sent: Wednesday, December 27, 2017 3:28 PM

To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>; jameskasdorfjr@wisconsin.gov

Subject: 2408 Elm Rd. Water Results

Good Afternoon Tauren and Jim,

I received the results from the water sample I sent in a few weeks ago. I am not quite sure how to read them, but I have attached them if you want to review the results from that sample also. If there is anything concerning, please let me know.

Thanks Again,

Nick Sieracki

2408 Elm Rd.

Manitowoc, WI 54220

(920)629-2447

nsieracki54220@gmail.com



Wisconsin State Laboratory of Hygiene
 2601 Agriculture Drive, PO Box 7996
 Madison, WI 53707-7996
 (800)442-4618 - FAX (608)224-6213
<http://www.slh.wisc.edu>

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 358727001

Report To:

NICK SIERACKI
 2408 ELM RD.
 MANITOWOC, WI 54220

Invoice To:

NICK SIERACKI
 2408 ELM RD.
 MANITOWOC, WI 54220
 Customer ID: 352434

Collection Date: 12/11/2017 11:20:00 AM

Owner: NICK SIERACKI
 2408 ELM ROAD
 MANITOWOC, WI 54220
 920-629-2447

Collected By: NICK SIERACKI

Well Completion Date:

Unique Well #: NA

Well Construction: DRILLED

County: MANITOWOC

Driller or Pump Installers License #:

Sampling Location: 2408 ELM ROAD
 MANITOWOC, WI 54220

Date Received: 12/12/2017

Date Reported: 12/21/2017

Sample Reason: OTHER

Sampling Point: OTHER

Sample Comments

FAUCET ON WATER MAIN OFF WELL

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 12/19/17	Analysis Date 12/19/17				
Dichlorodifluoromethane	VOC Homeowner	ND	ug/L	2.0	2.0
Chloromethane	VOC Homeowner	ND	ug/L	2.0	2.0
Vinyl chloride	VOC Homeowner	ND	ug/L	0.20	0.20
Bromomethane	VOC Homeowner	ND	ug/L	2.0	2.0
Chloroethane	VOC Homeowner	ND	ug/L	2.0	2.0
Trichlorofluoromethane	VOC Homeowner	ND	ug/L	2.0	2.0
1,1-Dichloroethene	VOC Homeowner	ND	ug/L	2.0	2.0
Carbon disulfide	VOC Homeowner	ND	ug/L	2.0	2.0
Trichlorotrifluoroethane	VOC Homeowner	ND	ug/L	2.0	2.0
Methylene chloride	VOC Homeowner	ND	ug/L	2.0	2.0
Acetone	VOC Homeowner	ND	ug/L	10	10



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Environmental Health Division

WDNR LAB ID: 113133790

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EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 358727001

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 12/19/17	Analysis Date 12/19/17				
trans-1,2-Dichloroethene	VOC Homeowner	ND	ug/L	2.0	2.0
Hexane	VOC Homeowner	ND	ug/L	2.0	2.0
Methyl tert-Butyl ether (MTBE)	VOC Homeowner	ND	ug/L	2.0	2.0
Isopropyl Ether	VOC Homeowner	ND	ug/L	2.0	2.0
1,1-Dichloroethane	VOC Homeowner	ND	ug/L	2.0	2.0
cis-1,2-Dichloroethene	VOC Homeowner	ND	ug/L	2.0	2.0
2,2-Dichloropropane	VOC Homeowner	ND	ug/L	2.0	2.0
Bromochloromethane	VOC Homeowner	ND	ug/L	2.0	2.0
Chloroform	VOC Homeowner	ND	ug/L	2.0	2.0
Carbon tetrachloride	VOC Homeowner	ND	ug/L	2.0	2.0
Tetrahydrofuran	VOC Homeowner	ND	ug/L	10	10
1,1,1-Trichloroethane	VOC Homeowner	ND	ug/L	2.0	2.0
1,1-Dichloropropene	VOC Homeowner	ND	ug/L	2.0	2.0
Methyl Ethyl Ketone (MEK)	VOC Homeowner	ND	ug/L	10	10
Benzene	VOC Homeowner	ND	ug/L	2.0	2.0
1,2-Dichloroethane	VOC Homeowner	ND	ug/L	2.0	2.0
Trichloroethene	VOC Homeowner	ND	ug/L	2.0	2.0
Dibromomethane	VOC Homeowner	ND	ug/L	2.0	2.0
1,2-Dichloropropane	VOC Homeowner	ND	ug/L	2.0	2.0
Bromodichloromethane	VOC Homeowner	ND	ug/L	2.0	2.0
cis-1,3-Dichloropropene	VOC Homeowner	ND	ug/L	2.0	2.0
Toluene	VOC Homeowner	ND	ug/L	2.0	2.0
Tetrachloroethene	VOC Homeowner	ND	ug/L	2.0	2.0
4-Methyl-2-pentanone (MIBK)	VOC Homeowner	ND	ug/L	10	10
trans-1,3-Dichloropropene	VOC Homeowner	ND	ug/L	0.50	0.50
1,1,2-Trichloroethane	VOC Homeowner	ND	ug/L	2.0	2.0
Chlorodibromomethane	VOC Homeowner	ND	ug/L	2.0	2.0
1,3-Dichloropropane	VOC Homeowner	ND	ug/L	2.0	2.0
1,2-Dibromoethane	VOC Homeowner	ND	ug/L	0.50	0.50



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D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 358727001

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 12/19/17	Analysis Date 12/19/17				
Chlorobenzene	VOC Homeowner	ND	ug/L	2.0	2.0
Ethyl Benzene	VOC Homeowner	ND	ug/L	2.0	2.0
1,1,1,2-Tetrachloroethane	VOC Homeowner	ND	ug/L	2.0	2.0
m/p-xylene	VOC Homeowner	ND	ug/L	2.0	2.0
o-Xylene	VOC Homeowner	ND	ug/L	2.0	2.0
Styrene	VOC Homeowner	ND	ug/L	2.0	2.0
Bromoform	VOC Homeowner	ND	ug/L	2.0	2.0
Isopropylbenzene (Cumene)	VOC Homeowner	ND	ug/L	2.0	2.0
Bromobenzene	VOC Homeowner	ND	ug/L	2.0	2.0
n-Propylbenzene	VOC Homeowner	ND	ug/L	2.0	2.0
1,1,2,2-Tetrachloroethane	VOC Homeowner	ND	ug/L	0.50	0.50
2-Chlorotoluene	VOC Homeowner	ND	ug/L	2.0	2.0
1,3,5-Trimethylbenzene	VOC Homeowner	ND	ug/L	2.0	2.0
1,2,3-Trichloropropane	VOC Homeowner	ND	ug/L	2.0	2.0
4-Chlorotoluene	VOC Homeowner	ND	ug/L	2.0	2.0
tert-Butylbenzene	VOC Homeowner	ND	ug/L	2.0	2.0
1,2,4-Trimethylbenzene	VOC Homeowner	ND	ug/L	2.0	2.0
sec-Butylbenzene	VOC Homeowner	ND	ug/L	2.0	2.0
4-Isopropyltoluene	VOC Homeowner	ND	ug/L	2.0	2.0
1,3-Dichlorobenzene	VOC Homeowner	ND	ug/L	2.0	2.0
1,4-Dichlorobenzene	VOC Homeowner	ND	ug/L	2.0	2.0
n-Butylbenzene	VOC Homeowner	ND	ug/L	2.0	2.0
1,2-Dichlorobenzene	VOC Homeowner	ND	ug/L	2.0	2.0
1,2-Dibromo-3-chloropropane	VOC Homeowner	ND	ug/L	1.0	1.0
Hexachlorobutadiene	VOC Homeowner	ND	ug/L	2.0	2.0
1,2,4-Trichlorobenzene	VOC Homeowner	ND	ug/L	2.0	2.0
Naphthalene	VOC Homeowner	ND	ug/L	2.0	2.0
1,2,3-Trichlorobenzene	VOC Homeowner	ND	ug/L	2.0	2.0



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D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 358727001

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

F next to result = Result is between LOD and LOQ

Z next to result = Result is between 0 (zero) and LOD

if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

This Laboratory Report shall not be reproduced except in full, without written approval of the laboratory.

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270



D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 358727001

Drinking Water Standards for Result Interpretation

Parameter	Public Health Standard	Public Welfare Standard	Lifetime Health Advisory Limit
Aluminum	200 ug/L		
Arsenic (Total)	10 ug/L		
Atrazine*	3.0 ppb		
Cadmium	5 ug/L		
Calcium	No standard		
Chromium (Total)	100 ug/L		
Cobalt	40 ug/L		
Copper	1300 ug/L		
Fluoride	See below		
Hardness	No standard (see below)		
Iron		0.3 mg/L	
Lead	15 ug/L		
Magnesium	No standard		
Manganese	300 ug/L	50 ug/L	
Molybdenum			90 ug/L **
Nickel	100 ug/L		
Nitrate	10 mg/L		
Nitrate + Nitrite	10 mg/L		
Nitrite	1 mg/L		
Strontium			4000 ug/L (EPA)
Vanadium	30 ug/L		
Zinc		5000 ug/L	

Note: This table does not contain a complete list of standards. A complete list can be found in s. NR 140, Wis. Adm. Code.

Public Health Standard: Limit above which the water should not be consumed or used for food preparation. (s. NR 140.10, Wis. Adm. Code)

Public Welfare Standard: Limit above which the substance may adversely affect the cosmetic or aesthetic quality of drinking water. (s. NR 140.12, Wis. Adm. Code)

Lifetime Health Advisory Limit: Consuming water below this limit for a lifetime is not expected to cause adverse health effects. (United States Environmental Protection Agency (EPA) or Wisconsin Dept. of Health Services (WI DHS))

*The Atrazine standard includes Atrazine and its breakdown products.

**NR 140 currently lists a Public Health Standard for Molybdenum of 40 ug/L, however this number is based on the EPA Lifetime Health Advisory Limit which is currently under review. The 90 ug/L Lifetime Health Advisory is recommended by the WI Dept of Health Services and should be used in the evaluation of the safety of your drinking water.

Other analytes:	Concentration:	Interpretation:
Fluoride	0.7 mg/L	Optimal
	>2.0 mg/L	Children under 8 should not consume
	>4.0 mg/L	Children and adults should not consume
Hardness	<17.1 mg/L	Soft
	17.1-60 mg/L	Slightly hard
	60-120 mg/L	Moderately hard
	120-180 mg/L	Hard
	>180 mg/L	Very Hard

Town of Manitowoc Resident Discussion Notes from 12/19/2017 Private Well Sampling:

Prepared by: Tauren R. Beggs on 12/21/2017

2501 Nelson Lane – Kaeo and Layord Kaeovongphet

- Got signed access agreement from Kaeo around 3:30pm. They had filled out the access agreement that came with the Dec 15 letter and provided that as well.
- Worked primarily with their daughter Diana and her husband Jesse while at the house sampling
- The house was built in 2002 and the last name of the original owner is Kue
- If we do end up needing to sample their neighbors Viluck and Kia Kue at 2508 Nelson Lane, Diana indicated the Kues are Hmong, so we could provide information to Diana and she could forward the information to Kue's nephew to translate to them.

2408 Elm Rd – Nick Sieracki

- Stopped by this house in the afternoon and met Nick's fiancé Briana and her mother. Stopped back when Nick got home around 4pm.
- Nick provided his cell phone number 920-629-2447
- Nick indicated the house was built in 1962 and his father bought the house at a sheriff's auction in 2013. He recalled Mary Lutz as a previous owner.
- Nick said Randy Midal serviced the well in 2013 or 2014 and he remembers 155 or 157 feet total well depth.
- Nick talked to Ms. Novy about the contamination in her well and he decided to take a sample for VOCs on 12/11/17 that he submitted to Madison. He did not have results when we talked to him, but said he would email a copy of the results to us once he received them.

3203 S. 26th St – Dave and Nancy Meyer

- Stopped by this house during the afternoon and met Nancy. She asked us to stop back after Dave got home from work around 4:20pm.
- Dave thought the well might be approximately nine years old. He did not have any more information about his well, when the house was built or the name of the original owner.

2201 Elm Rd – Robert and Jody Love III

- Met with Robert Love when he got home around 5pm.
- Kasdorf found the well record for Robert's private well and Robert confirmed the original owner name on the record. Well is installed in gravel.

2417 Elm Rd – Larry Sonnenburg

- Larry indicated that the Meyer property, 3203 S. 26th St (formerly owned by Sieracki) and his residence formerly shared a well, but no longer do.
- Larry's wife, the town clerk/treasurer, indicated the original owner was Don Derouche, the address used to be Route 3 and the house was 56 years old (house was 8 years old when they bought it), so the house was built around 1961.

2514 Elm Rd – Joseph Higgins

- Joseph said he built the house himself about 10 years ago and started living there about 4 years ago. The private well was already at the property prior to him purchasing it. He did not recall the previous owner's name.
- Joseph believes the well is approximately 150 feet deep and he could call his friend who is a well driller to get more information if needed.
- Joseph said the water is very hard, which likely indicates the well is installed in bedrock.
- He also indicated that there is an underground stream under his house that had flooded his basement during construction of the house.

Beggs, Tauren R - DNR

From: Beggs, Tauren R - DNR
Sent: Wednesday, December 20, 2017 12:41 PM
To: GravelPit (GravelPit@manitowoc.org); Henderson, Dave (Dave.Henderson@aecom.com)
Cc: Kasdorf, James H Jr - DNR
Subject: Town of Newton and Town of Manitowoc Sampling Update

Good afternoon,

Summary of recent sampling activities:

- December 14, 2017: Jim met with 2915 Nelson Ln (Wagner) to collect well sample. Jim and I met with 3008 S. 26th St (Moore) to discuss results and collect confirmation sample.
- December 15, 2017: Second round of sample request letters and access agreements sent to homeowners. Extended mailing list to one road south of Birch (Elm Rd) due to complications with homeowner on Birch.
- December 19, 2017: Jim and I went out during the day around 2:30pm, knocked door to door. Most homeowners not home during the day. Left flyers on their doors that stated DNR sent a letter on Dec 15 that should have been received, DNR is in the area sampling and to call DNR to schedule for sampling. Jim and I returned around 4pm with a warden and were able to sample six homes: 2501 Nelson Ln, 2201 Elm Rd, 2408 Elm Rd, 2417 Elm Rd, 2514 Elm Rd and 3203 S. 26th St. See areal GIS map below for reference. The residents on Elm Rd were much more receptive to DNR sampling.

Summary: Eight private wells have been sampled by DNR to screen the area. Private well sample results for 3008 S. 26th St had an enforcement standard exceedance for vinyl chloride (0.47 ug/L). The private well sample results for the other seven wells and the confirmation sample from 3008 S. 26th St, based on the typical two week lab turnaround time, should be received soon after the new year. We received some information from the homeowners that could help Jim find the additional well records. Jim did find a couple well records already. There appears to be wells installed in gravel and in bedrock in this area.



If you have any questions, please let me know.

Regards,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customerurvey> to evaluate how I did.

Tauren R. Beggs

Hydrogeologist & Northeast Region Land Recycling Expert
 Remediation and Redevelopment Program
 Wisconsin Department of Natural Resources
 2984 Shawano Ave
 Green Bay, WI 54313
 Phone: (920) 662-5178
 Tauren.Beggs@wisconsin.gov

Beggs, Tauren R - DNR

From: Ales, Stephen M - DNR
Sent: Wednesday, December 20, 2017 1:11 PM
To: Beggs, Tauren R - DNR
Cc: Chronert, Roxanne N - DNR; Kasdorf, James H Jr - DNR; Nessman, Martin D - DNR; Burton, Kyle - DNR
Subject: RE: Town of Newton Private Well Sampling Update

Tauren:

Thanks you very much for this summary. I will be providing our legislative liaisons a summary of this project later today. Your information will be very useful.

Also, to you and Jim: Thanks to both of you for your diligent efforts to sample these private wells. Your professionalism and concern for the public is very evident. Thank you both.

Steve

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Stephen M. Ales, P.G.

Phone: (608) 264-6014

stephen.ales@wisconsin.gov

From: Beggs, Tauren R - DNR
Sent: Wednesday, December 20, 2017 11:54 AM
To: Ales, Stephen M - DNR
Cc: Chronert, Roxanne N - DNR
Subject: RE: Town of Newton Private Well Sampling Update

Hi Steve,

I put together updated information this morning for the Town of Newton and Town of Manitowoc sampling efforts by DNR. Here is the summary:

- November 3, 2017: First round of sample request letters and access agreements sent to homeowners on S. 26th Street, Nelson Lane and Birch Rd. Total of 15 letters.
- November 8, 2017: Two groups: Kasdorf and Beggs and Merry and Taddy went door to door during the day to try to sample. Most residents not home. One private well sampled at 3008 S. 26th St (Anita Moore). One unfriendly resident on Birch Rd who owned multiple properties on Birch Rd would not allow sampling and did not want to be sampled in the future.
- November 9 – 17, 2017: DNR attempted to find numbers for residents who did not respond to the letter. DNR attempted to call residents, most numbers out of service. DNR followed up with the City of Manitowoc who provided other numbers for residents. Some of those were out of service numbers, left voicemails for some, and got in touch with three residents at 2515 Nelson Ln, 2915 Nelson Ln and 3021 S. 26th St.

- November 20, 2017: Kasdorf spoke to homeowner for 2515 Nelson Ln and 3021 S. 26th St. Notified by both owners Kasdorf could sample wells. Needed to get signed access agreements and schedule sampling.
- November 28, 2017: Kasdorf attempted to call homeowners again for 2515 Nelson Ln, 2915 Nelson Ln and 3021 S. 26th St.
- December 4-6, 2017: Kasdorf received access agreement and call from homeowner at 2915 Nelson Ln (Levi Wagner). Wagner gave permission to Kasdorf to sample from the outside spigot during the day while Wagner was not home. Outside spigot was frozen, so could not collect sample.
- December 6-13, 2017: Kasdorf continued to work with Wagner for sample scheduling.
- December 11, 2017: 2918 S 26th St (Steve and Deborah Novy) private well replacement completed by well driller that was hired by the City of Manitowoc.
- December 13, 2017: Received well sample results for 3008 S. 26th St (Anita Moore). Cis-1,2-DCE and vinyl chloride detected. Vinyl chloride (0.47 ug/L) above enforcement standard.
- December 14, 2017: Kasdorf met with 2915 Nelson Ln (Wagner) to collect well sample. Beggs and Kasdorf met with 3008 S. 26th St (Moore) to discuss results and collect confirmation sample. Beggs and Kasdorf followed up with the City to get Moore bottled water from Culligan.
- December 15, 2017: Second round of sample request letters and access agreements sent to homeowners. Extended mailing list to one road south of Birch due to complications with homeowner on Birch.
- December 19, 2017: Kasdorf and Beggs went door to door in afternoon to try to sample. Most homeowners not home during the day. Left flyers that stated DNR sent a letter on Dec 15 that should have been received, DNR is in the area sampling and to call DNR to schedule for sampling. Kasdorf and Beggs returned at around 4pm to residences and was able to sample six homes: 2501 Nelson Ln, 2201 Elm Rd, 2408 Elm Rd, 2417 Elm Rd, 2514 Elm Rd and 3203 S. 26th St. See areal GIS map below for reference.

Summary: Eight private wells have been sampled by DNR to screen the area. Private well sample results for 3008 S. 26th St had an enforcement standard exceedance for vinyl chloride. The private well sample results for the other seven wells and the confirmation sample from 3008 S. 26th St, based on the typical two week lab turnaround time, should be received soon after the new year.



If you have any questions, please let me know.

Regards,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customerurvey> to evaluate how I did.

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