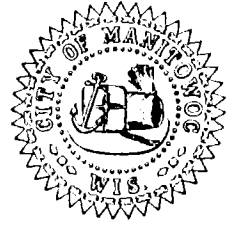


# CITY OF MANITOWOC

WISCONSIN, USA  
www.manitowoc.org



COPY

April 15, 2016

Mr. Michael D. Rogers  
3303 Hecker Rd  
Manitowoc, WI 54220

Dear Mr. Rogers:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of VOCs above Enforcement Standards. The results also show the presence of cis-1,2-dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). A copy of your laboratory analytical results is attached.

It is our understanding that the property is currently not occupied. Should this change, you will need to contact us **prior** to occupancy.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

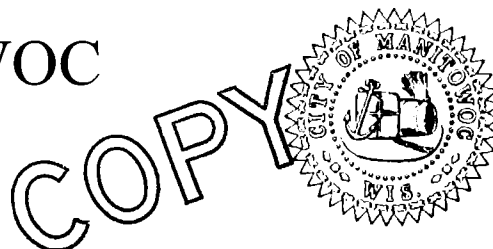
Lab Code 5030769C  
 Sample ID 3303 HECKER RD  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	2.53	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	0.51 "J"	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	99	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	97	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

WISCONSIN, USA

[www.manitowoc.org](http://www.manitowoc.org)



April 15, 2016

Ms. Gloria Thompson  
2832 CTH CR  
Manitowoc, WI 54220

Dear Ms. Gloria Thompson:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kathleen McDaniel', is written over a faint, larger version of the same signature.

Kathleen McDaniel  
City Attorney  
City of Manitowoc

A handwritten signature in black ink, appearing to read 'Dan Koski', is written over a faint, larger version of the same signature.

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

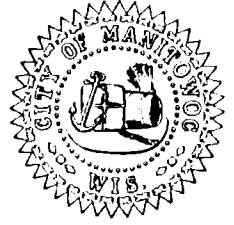
Invoice # E30769

Lab Code 5030769K  
 Sample ID 2832 CTH CR  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	<0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
Bromobenzene	<0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
Bromodichloromethane	<0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
Bromoform	<0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
tert-Butylbenzene	<1.1	ug/l	1.1	3.4	1	8260B		4/6/2016	CJR	1
sec-Butylbenzene	<1.2	ug/l	1.2	3.8	1	8260B		4/6/2016	CJR	1
n-Butylbenzene	<1	ug/l	1	3.3	1	8260B		4/6/2016	CJR	1
Carbon Tetrachloride	<0.51	ug/l	0.51	1.6	1	8260B		4/6/2016	CJR	1
Chlorobenzene	<0.46	ug/l	0.46	1.4	1	8260B		4/6/2016	CJR	1
Chloroethane	<0.65	ug/l	0.65	2.1	1	8260B		4/6/2016	CJR	1
Chloroform	<0.43	ug/l	0.43	1.4	1	8260B		4/6/2016	CJR	1
Chloromethane	<1.9	ug/l	1.9	6	1	8260B		4/6/2016	CJR	1
2-Chlorotoluene	<0.4	ug/l	0.4	1.3	1	8260B		4/6/2016	CJR	1
4-Chlorotoluene	<0.63	ug/l	0.63	2	1	8260B		4/6/2016	CJR	1
1,2-Dibromo-3-chloropropane	<1.4	ug/l	1.4	4.5	1	8260B		4/6/2016	CJR	1
Dibromochloromethane	<0.45	ug/l	0.45	1.4	1	8260B		4/6/2016	CJR	1
1,4-Dichlorobenzene	<0.49	ug/l	0.49	1.6	1	8260B		4/6/2016	CJR	1
1,3-Dichlorobenzene	<0.52	ug/l	0.52	1.6	1	8260B		4/6/2016	CJR	1
1,2-Dichlorobenzene	<0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
Dichlorodifluoromethane	<0.87	ug/l	0.87	2.8	1	8260B		4/6/2016	CJR	1
1,2-Dichloroethane	<0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
1,1-Dichloroethane	<1.1	ug/l	1.1	3.6	1	8260B		4/6/2016	CJR	1
1,1-Dichloroethene	<0.65	ug/l	0.65	2.1	1	8260B		4/6/2016	CJR	1
cis-1,2-Dichloroethene	<0.45	ug/l	0.45	1.4	1	8260B		4/6/2016	CJR	1
trans-1,2-Dichloroethene	<0.54	ug/l	0.54	1.7	1	8260B		4/6/2016	CJR	1
1,2-Dichloropropane	<0.43	ug/l	0.43	1.37	1	8260B		4/6/2016	CJR	1
2,2-Dichloropropane	<3.1	ug/l	3.1	9.8	1	8260B		4/6/2016	CJR	1
1,3-Dichloropropane	<0.42	ug/l	0.42	1.3	1	8260B		4/6/2016	CJR	1
Di-isopropyl ether	<0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
EDB (1,2-Dibromoethane)	<0.63	ug/l	0.63	2	1	8260B		4/6/2016	CJR	1
Ethylbenzene	<0.71	ug/l	0.71	2.3	1	8260B		4/6/2016	CJR	1
Hexachlorobutadiene	<2.2	ug/l	2.2	7.1	1	8260B		4/6/2016	CJR	1
Isopropylbenzene	<0.82	ug/l	0.82	2.6	1	8260B		4/6/2016	CJR	1
p-Isopropyltoluene	<1.1	ug/l	1.1	3.5	1	8260B		4/6/2016	CJR	1
Methylene chloride	<1.3	ug/l	1.3	4.2	1	8260B		4/6/2016	CJR	1
Methyl tert-butyl ether (MTBE)	<1.1	ug/l	1.1	3.7	1	8260B		4/6/2016	CJR	1
Naphthalene	<1.6	ug/l	1.6	5.2	1	8260B		4/6/2016	CJR	1
n-Propylbenzene	<0.77	ug/l	0.77	2.4	1	8260B		4/6/2016	CJR	1
1,1,2,2-Tetrachloroethane	<0.52	ug/l	0.52	1.7	1	8260B		4/6/2016	CJR	1
1,1,1,2-Tetrachloroethane	<0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
Tetrachloroethene	<0.49	ug/l	0.49	1.5	1	8260B		4/6/2016	CJR	1
Toluene	<0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
1,2,4-Trichlorobenzene	<1.7	ug/l	1.7	5.6	1	8260B		4/6/2016	CJR	1
1,2,3-Trichlorobenzene	<2.7	ug/l	2.7	8.6	1	8260B		4/6/2016	CJR	1
1,1,1-Trichloroethane	<0.84	ug/l	0.84	2.7	1	8260B		4/6/2016	CJR	1
1,1,2-Trichloroethane	<0.48	ug/l	0.48	1.52	1	8260B		4/6/2016	CJR	1
Trichloroethene (TCE)	<0.47	ug/l	0.47	1.5	1	8260B		4/6/2016	CJR	1
Trichlorofluoromethane	<0.87	ug/l	0.87	2.8	1	8260B		4/6/2016	CJR	1
1,2,4-Trimethylbenzene	<1.6	ug/l	1.6	5	1	8260B		4/6/2016	CJR	1
1,3,5-Trimethylbenzene	<1.5	ug/l	1.5	4.8	1	8260B		4/6/2016	CJR	1
Vinyl Chloride	<0.17	ug/l	0.17	0.54	1	8260B		4/6/2016	CJR	1
m&p-Xylene	<2.2	ug/l	2.2	6.9	1	8260B		4/6/2016	CJR	1
o-Xylene	<0.9	ug/l	0.9	2.9	1	8260B		4/6/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	90	REC %				8260B		4/6/2016	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %				8260B		4/6/2016	CJR	1
SUR - Dibromofluoromethane	95	REC %				8260B		4/6/2016	CJR	1
SUR - Toluene-d8	96	REC %				8260B		4/6/2016	CJR	1

# CITY OF MANITOWOC

WISCONSIN, USA  
www.manitowoc.org



April 15, 2016

# COPY

Mr. Chad J. Anhalt  
3224 CTH CR  
Manitowoc, WI 54220

Dear Mr. Anhalt:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920)993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure.  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

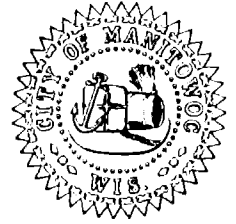
Invoice # E30769

Lab Code 530769AA  
 Sample ID 3224 CTH CR  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	102	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	107	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 15, 2016

Ms. Brenda Birringer  
3027 Orchard Lane  
Manitowoc, WI 54220

Dear Ms. Birringer:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results show that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure,  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

Lab Code 530769DD  
 Sample ID 3027 ORCHARD LN  
 Sample Matrix Water  
 Sample Date 3/31/2016

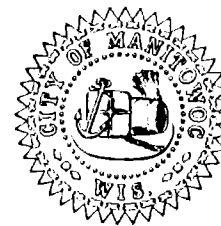
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	<0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
Bromobenzene	<0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
Bromodichloromethane	<0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
Bromoform	<0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
tert-Butylbenzene	<1.1	ug/l	1.1	3.4	1	8260B		4/6/2016	CJR	1
sec-Butylbenzene	<1.2	ug/l	1.2	3.8	1	8260B		4/6/2016	CJR	1
n-Butylbenzene	<1	ug/l	1	3.3	1	8260B		4/6/2016	CJR	1
Carbon Tetrachloride	<0.51	ug/l	0.51	1.6	1	8260B		4/6/2016	CJR	1
Chlorobenzene	<0.46	ug/l	0.46	1.4	1	8260B		4/6/2016	CJR	1
Chloroethane	<0.65	ug/l	0.65	2.1	1	8260B		4/6/2016	CJR	1
Chloroform	<0.43	ug/l	0.43	1.4	1	8260B		4/6/2016	CJR	1
Chloromethane	<1.9	ug/l	1.9	6	1	8260B		4/6/2016	CJR	1
2-Chlorotoluene	<0.4	ug/l	0.4	1.3	1	8260B		4/6/2016	CJR	1
4-Chlorotoluene	<0.63	ug/l	0.63	2	1	8260B		4/6/2016	CJR	1
1,2-Dibromo-3-chloropropane	<1.4	ug/l	1.4	4.5	1	8260B		4/6/2016	CJR	1
Dibromochloromethane	<0.45	ug/l	0.45	1.4	1	8260B		4/6/2016	CJR	1
1,4-Dichlorobenzene	<0.49	ug/l	0.49	1.6	1	8260B		4/6/2016	CJR	1
1,3-Dichlorobenzene	<0.52	ug/l	0.52	1.6	1	8260B		4/6/2016	CJR	1
1,2-Dichlorobenzene	<0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
Dichlorodifluoromethane	<0.87	ug/l	0.87	2.8	1	8260B		4/6/2016	CJR	1
1,2-Dichloroethane	<0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
1,1-Dichloroethane	<1.1	ug/l	1.1	3.6	1	8260B		4/6/2016	CJR	1
1,1-Dichloroethene	<0.65	ug/l	0.65	2.1	1	8260B		4/6/2016	CJR	1
cis-1,2-Dichloroethene	<0.45	ug/l	0.45	1.4	1	8260B		4/6/2016	CJR	1
trans-1,2-Dichloroethene	<0.54	ug/l	0.54	1.7	1	8260B		4/6/2016	CJR	1
1,2-Dichloropropane	<0.43	ug/l	0.43	1.37	1	8260B		4/6/2016	CJR	1
2,2-Dichloropropane	<3.1	ug/l	3.1	9.8	1	8260B		4/6/2016	CJR	1
1,3-Dichloropropane	<0.42	ug/l	0.42	1.3	1	8260B		4/6/2016	CJR	1
Di-isopropyl ether	<0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
EDB (1,2-Dibromoethane)	<0.63	ug/l	0.63	2	1	8260B		4/6/2016	CJR	1
Ethylbenzene	<0.71	ug/l	0.71	2.3	1	8260B		4/6/2016	CJR	1
Hexachlorobutadiene	<2.2	ug/l	2.2	7.1	1	8260B		4/6/2016	CJR	1
Isopropylbenzene	<0.82	ug/l	0.82	2.6	1	8260B		4/6/2016	CJR	1
p-Isopropyltoluene	<1.1	ug/l	1.1	3.5	1	8260B		4/6/2016	CJR	1
Methylene chloride	<1.3	ug/l	1.3	4.2	1	8260B		4/6/2016	CJR	1
Methyl tert-butyl ether (MTBE)	<1.1	ug/l	1.1	3.7	1	8260B		4/6/2016	CJR	1
Naphthalene	<1.6	ug/l	1.6	5.2	1	8260B		4/6/2016	CJR	1
n-Propylbenzene	<0.77	ug/l	0.77	2.4	1	8260B		4/6/2016	CJR	1
1,1,2,2-Tetrachloroethane	<0.52	ug/l	0.52	1.7	1	8260B		4/6/2016	CJR	1
1,1,1,2-Tetrachloroethane	<0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
Tetrachloroethene	<0.49	ug/l	0.49	1.5	1	8260B		4/6/2016	CJR	1
Toluene	<0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
1,2,4-Trichlorobenzene	<1.7	ug/l	1.7	5.6	1	8260B		4/6/2016	CJR	1
1,2,3-Trichlorobenzene	<2.7	ug/l	2.7	8.6	1	8260B		4/6/2016	CJR	1
1,1,1-Trichloroethane	<0.84	ug/l	0.84	2.7	1	8260B		4/6/2016	CJR	1
1,1,2-Trichloroethane	<0.48	ug/l	0.48	1.52	1	8260B		4/6/2016	CJR	1
Trichloroethene (TCE)	<0.47	ug/l	0.47	1.5	1	8260B		4/6/2016	CJR	1
Trichlorofluoromethane	<0.87	ug/l	0.87	2.8	1	8260B		4/6/2016	CJR	1
1,2,4-Trimethylbenzene	<1.6	ug/l	1.6	5	1	8260B		4/6/2016	CJR	1
1,3,5-Trimethylbenzene	<1.5	ug/l	1.5	4.8	1	8260B		4/6/2016	CJR	1
Vinyl Chloride	<0.17	ug/l	0.17	0.54	1	8260B		4/6/2016	CJR	1
m&p-Xylene	<2.2	ug/l	2.2	6.9	1	8260B		4/6/2016	CJR	1
o-Xylene	<0.9	ug/l	0.9	2.9	1	8260B		4/6/2016	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		4/6/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	111	REC %			1	8260B		4/6/2016	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1	8260B		4/6/2016	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		4/6/2016	CJR	1



# CITY OF MANITOWOC

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April 15, 2016

Mr. Joseph Mancheski  
3320 Hecker Rd  
Manitowoc, WI 54220

Dear Mr. Joseph Mancheski:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

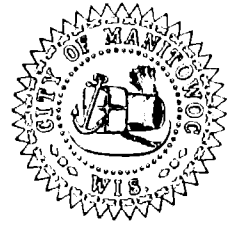
Invoice # E30769

Lab Code 5030769F  
 Sample ID 3320 HECKER RD  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	96	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	97	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 15, 2016

Mr. & Mrs. Edward G. Miller  
3327 Hecker Road  
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Miller:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

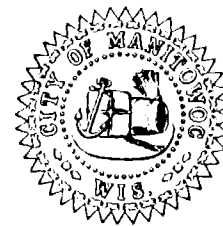
Lab Code 5030769P  
 Sample ID 3327 HECKER RD  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	3.2	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 15, 2016

Ms. Louise E. Ropp  
3412 CTH CR  
Manitowoc, WI 54220

Dear Ms. Ropp:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure.  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

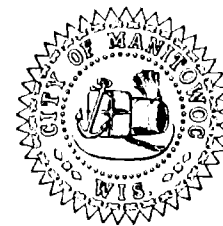
Lab Code 5030769W  
 Sample ID 3412 CTH CR  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	108	REC %				8260B		4/5/2016	CJR	1
SUR - Toluene-d8	97	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 15, 2016

Mr. Allen Braun  
414 Magnolia Ave.  
Manitowoc, WI 54220

RE: 3461(3417) Hecker Road

Dear Mr. Braun:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920)993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

Lab Code 5030769I  
 Sample ID 3461 HECKER RD  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	1.66	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		4/5/2016	CJR	1



Project Name NEWTON GRAVEL PIT  
 Project #

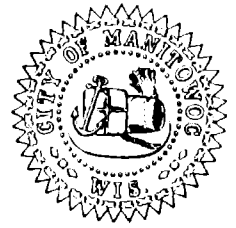
Invoice # E30769

Lab Code 5030769J  
 Sample ID 3461 HECKER RD DWP  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	1.74	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %			1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

WISCONSIN, USA  
www.manitowoc.org



April 15, 2016

COPY

Priority IAC, Inc.  
Ms. Cindy Bruenig  
3504 CTH CR  
Manitowoc, WI 54220

Dear Ms. Bruenig:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). Since your well has tested positive for vinyl chloride in a previous test, we ask that you continue to use the bottled water we have provided you for drinking and cooking. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

Lab Code 5030769S  
 Sample ID 3504 CTH CR  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	0.76 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	108	REC %				8260B		4/5/2016	CJR	1
SUR - Toluene-d8	99	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %				8260B		4/5/2016	CJR	1

Project Name NEWTON GRAVEL PIT  
 Project #

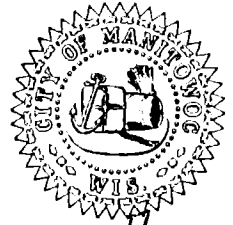
Invoice # E30769

Lab Code 5030769T  
 Sample ID 3504 CTH CR DUP  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	0.91 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	108	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	106	REC %				8260B		4/5/2016	CJR	1
SUR - Toluene-d8	100	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 15, 2016

Mr. Michael J. Hardow  
3533 CTH CR  
Manitowoc, WI 54220

Dear Mr. Hardow:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Handwritten signature of Kathleen McDaniel in black ink.

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Handwritten signature of Dan Koski in black ink.

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
Project #

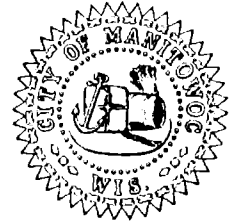
Invoice # E30769

Lab Code 5030769B  
Sample ID 3533 CTH CR  
Sample Matrix Water  
Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2*	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 15, 2016

Mr. & Mrs. Jerome Trembley  
3301 Alt. 19, Lot 264  
Dunedin, FL 34698

RE: 3617 Viebahn St.

Dear Mr. & Mrs. Trembley:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.


The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). Since your well has tested positive for vinyl chloride in a previous test, we ask that you continue to use the bottled water we have provided you for drinking and cooking. A copy of your laboratory analytical results is attached.

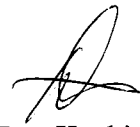
If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178 or  
Annette Weissbach (920)662-5165  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

We very much appreciate your concern and we wish to inconvenience you as little as possible while we work through this situation. If you have any questions, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

  
Kathleen McDaniel  
City Attorney  
City of Manitowoc

  
Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

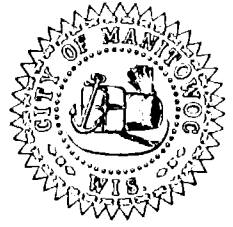
Lab Code 5030769D  
 Sample ID 3617 VIEBAHN  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	1.12 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	97	REC %				8260B		4/5/2016	CJR	1
SUR - Toluene-d8	98	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %				8260B		4/5/2016	CJR	1



# CITY OF MANITOWOC

WISCONSIN, USA  
www.manitowoc.org



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April 15, 2016

Mr. Robert Flaim  
3618 CTH CR  
Manitowoc, WI 54220

Dear Mr. Flaim:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



# Synergy Environmental Lab, INC.

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

DAVE HENDERSON  
 AECOM  
 1555 N RIVER CENTER DRIVE  
 MILWAUKEE, WI 53212

Report Date 07-Apr-16

Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

Lab Code 5030769A  
 Sample ID 3618 CTH CR  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B	4/5/2016	4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B	4/5/2016	4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B	4/5/2016	4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B	4/5/2016	4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B	4/5/2016	4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B	4/5/2016	4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B	4/5/2016	4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B	4/5/2016	4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B	4/5/2016	4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B	4/5/2016	4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B	4/5/2016	4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B	4/5/2016	4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B	4/5/2016	4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B	4/5/2016	4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B	4/5/2016	4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B	4/5/2016	4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B	4/5/2016	4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B	4/5/2016	4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B	4/5/2016	4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	4/5/2016	4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	4/5/2016	4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B	4/5/2016	4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B	4/5/2016	4/5/2016	CJR	1
cis-1,2-Dichloroethene	1.06 "J"	ug/l	0.45	1.4	1	8260B	4/5/2016	4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B	4/5/2016	4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B	4/5/2016	4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B	4/5/2016	4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B	4/5/2016	4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B	4/5/2016	4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B	4/5/2016	4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	4/5/2016	4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B	4/5/2016	4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B	4/5/2016	4/5/2016	CJR	1

Project Name NEWTON GRAVEL PIT  
 Project #

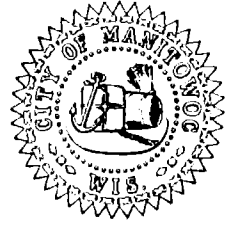
Invoice # E30769

Lab Code 5030769A  
 Sample ID 3618 CTH CR  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %			1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			1	8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

WISCONSIN, USA  
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April 15, 2016

Mr. Guy LeClair  
7815 CTH C  
Manitowoc, WI 54220

RE: 3627 CTH CR

COPY

Dear Mr. LeClair:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.


The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.


If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

  
Kathleen McDaniel  
City Attorney  
City of Manitowoc

  
Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

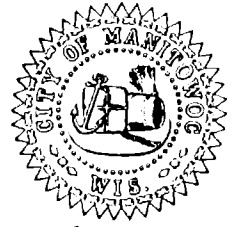
Invoice # E30769

Lab Code 5030769H  
 Sample ID 3627 CTH CR  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	96	REC %				8260B		4/5/2016	CJR	1
SUR - Toluene-d8	99	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

WISCONSIN, USA  
www.manitowoc.org



COPY

April 18, 2016

Mr. & Mrs. Richard Bruenig  
3720 Hecker Rd  
Manitowoc, WI 54220

RE: 3702 Hecker Road

Dear Mr. & Mrs. Bruenig:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results show that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920)993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Handwritten signature of Kathleen McDaniel in black ink.

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Handwritten signature of Dan Koski in black ink.

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

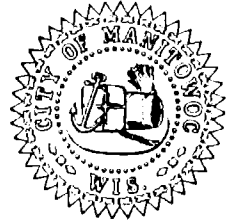
Invoice # E30769

Lab Code 5030769U  
 Sample ID 3702 HECKER RD  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	102	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	107	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 18, 2016

Mr. & Mrs. Richard Bruenig  
3720 Hecker Rd  
Manitowoc, WI 54220

Dear Mr. & Mrs. Bruenig:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920)993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data





Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

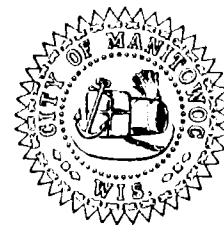
Lab Code 5030769V  
 Sample ID 3720 HECKER RD  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	94	REC %				8260B		4/5/2016	CJR	1
SUR - Toluene-d8	102	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	117	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 18, 2016

Mr. Brian Maurer & Ms. Jodie Zawada  
3817 Viebahn  
Manitowoc, WI 54220

Dear Mr. Maurer & Ms. Zawada:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The test results show that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920)993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

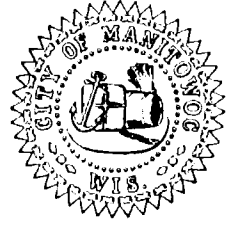
Invoice # E30769

Lab Code 530769EE  
 Sample ID 3817 VIEBAHN  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/6/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/6/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/6/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/6/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/6/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/6/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/6/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/6/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/6/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/6/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/6/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/6/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/6/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/6/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/6/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/6/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/6/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/6/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/6/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/6/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/6/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/6/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/6/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/6/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/6/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/6/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/6/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/6/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/6/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/6/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/6/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/6/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/6/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/6/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/6/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/6/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/6/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/6/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/6/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/6/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/6/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/6/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/6/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/6/2016	CJR	1
SUR - Toluene-d8	102	REC %				8260B		4/6/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	88	REC %				8260B		4/6/2016	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %				8260B		4/6/2016	CJR	1
SUR - Dibromofluoromethane	108	REC %				8260B		4/6/2016	CJR	1

# CITY OF MANITOWOC

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April 18, 2016

Mr. & Mrs. Lawrence Kakatsch, Jr.  
3825 Viebahn  
Manitowoc, WI 54220

Dear Mr. & Mrs. Kakatsch:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The test results show that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

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WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

Lab Code 5030769Y  
 Sample ID 3825 VIEBAHN  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	96	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	112	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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COPY

April 18, 2016

Mr. & Mrs. Jeffrey Tulach  
3921 Blackhawk Ct.  
Manitowoc, WI 54220

Dear Mr. & Mrs. Tulach:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920)993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

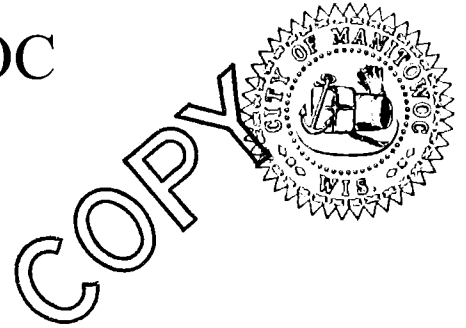
Invoice # E30769

Lab Code 5030769R  
 Sample ID 3921 BLACK HAW  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	0.71 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	103	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	108	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

WISCONSIN, USA  
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April 18, 2016

Mr. Matthew McFarlane  
4002 Thunder Ridge Rd.  
Manitowoc, WI 54220

Dear Mr. McFarlane:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). Since your well has tested positive for vinyl chloride in a previous test, we ask that you continue to use the bottled water we have provided you for drinking and cooking. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920)993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data





Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

Lab Code 530769BB  
 Sample ID 4002 THUNDER RI  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	0.68 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	104	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %				8260B		4/5/2016	CJR	1
SUR - Toluene-d8	100	REC %				8260B		4/5/2016	CJR	1

Project Name NEWTON GRAVEL PIT  
 Project #

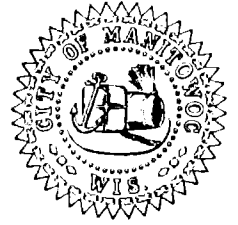
Invoice # E30769

Lab Code 530769CC  
 Sample ID 4002 THUNDER RI - *TLUP*  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	1.03 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	99	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	115	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	111	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

WISCONSIN, USA  
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April 18, 2016

Mr. & Mrs. Patrick Weier  
4005 Thunder Ridge Rd  
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Weier:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920)993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

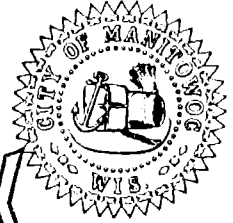
Lab Code 5030769G  
 Sample ID 4005 THUNDER RI  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	0.97 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	91	REC %			1	8260B		4/5/2016	CJR	1



# CITY OF MANITOWOC

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April 18, 2016

Mr. & Mrs. Matthew Gentile Revoc Trust  
4010 Thunder Ridge Rd  
Manitowoc, WI 54220

Dear Mr. & Mrs. Gentile:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920)993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

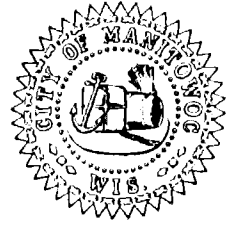
Lab Code 5030769Z  
 Sample ID 4010 THUNDER RI  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	1.47	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	118	REC %			1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	111	REC %			1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		4/5/2016	CJR	1



# CITY OF MANITOWOC

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April 18, 2016

Mr. & Mrs. Howard Linsmeier  
4027 Thunder Ridge Rd  
Manitowoc, WI 54220

Dear Mr. & Mrs. Linsmeier:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, March 31, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure.  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

Lab Code 5030769Q  
 Sample ID 4027 THUNDER RI  
 Sample Matrix Water  
 Sample Date 3/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	0.71 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	112	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	108	REC %				8260B		4/5/2016	CJR	1
SUR - Toluene-d8	100	REC %				8260B		4/5/2016	CJR	1



# CITY OF MANITOWOC

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April 18, 2016

Mr. & Mrs. Jeremy Maes  
4101 Thunder Ridge Rd  
Manitowoc, WI 54220

Dear Mr. & Mrs. Maes:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results continue to indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Handwritten signature of Kathleen McDaniel.

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Handwritten signature of Dan Koski.

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

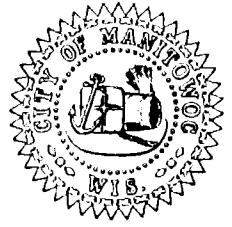
Invoice # E30769

Lab Code 5030769L  
 Sample ID 4101 THUNDER RI  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	0.71 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	105	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %				8260B		4/5/2016	CJR	1
SUR - Toluene-d8	98	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 18, 2016

Mr. & Mrs. Kurt Messman  
4111 Thunder Ridge Rd  
Manitowoc, WI 54220

Dear Mr. & Mrs. Messman:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results show that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

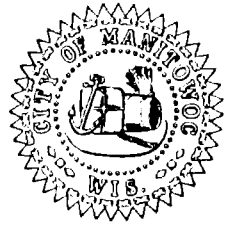
Invoice # E30769

Lab Code 50307690  
 Sample ID 4111 THUNDER RI  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	98	REC %				8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	113	REC %				8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %				8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	113	REC %				8260B		4/5/2016	CJR	1

# CITY OF MANITOWOC

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April 18, 2016

Mr. & Mrs. Paul Zimmer  
4127 Thunder Ridge Rd  
Manitowoc, WI 54220

Dear Mr. & Mrs. Paul Zimmer:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data

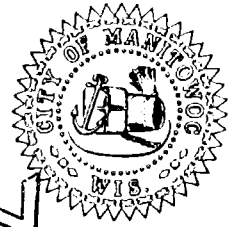


Lab Code 5030769N  
 Sample ID 4127 THUNDER RI  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/6/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/6/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/6/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/6/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/6/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/6/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/6/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/6/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/6/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/6/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/6/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/6/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/6/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/6/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/6/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/6/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/6/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/6/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		4/6/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/6/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/6/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/6/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/6/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/6/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/6/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/6/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/6/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/6/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/6/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/6/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/6/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/6/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/6/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/6/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/6/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/6/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/6/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/6/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/6/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/6/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/6/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/6/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/6/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/6/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/6/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/6/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/6/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		4/6/2016	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			1	8260B		4/6/2016	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		4/6/2016	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		4/6/2016	CJR	1

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April 18, 2016

Mr. Larry Waack  
4156 Silver Creek Rd  
Manitowoc, WI 54221

Dear Mr. Waack:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

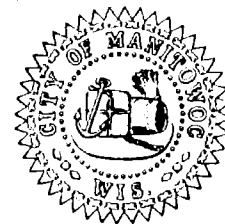
Lab Code 5030769E  
 Sample ID 4156 SILVER CREE  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	<0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	<0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	<0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	<0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	<1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	<1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	<1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	<0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	<0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	<0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	<0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	<1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	<0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	<0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	<1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	<0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	<0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	<0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	<0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	<0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	<0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	<1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	<0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	<0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	<0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	<0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	<3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	<0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	<0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	<0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	<0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	<2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	<0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	<1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	<1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	<1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	<1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	<0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	<0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	<0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	<0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	<0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	<1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	<2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	<0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	<0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	<0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	<0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	<1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	<1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	<0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	<2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	<0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		4/5/2016	CJR	1



# CITY OF MANITOWOC

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April 18, 2016

Mr. & Mrs. William Gamble  
4159 Silver Creek Rd  
Manitowoc, WI 54222

Dear Mr. & Mrs. Gamble:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, March 30, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Liz Heinen (920) 993-7056  
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178  
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608) 266-3393  
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel  
City Attorney  
City of Manitowoc

Dan Koski, P.E.  
Director of Public Infrastructure  
City of Manitowoc

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT  
 Project #

Invoice # E30769

Lab Code 5030769M  
 Sample ID 4159 SILVER CREE  
 Sample Matrix Water  
 Sample Date 3/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		4/5/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		4/5/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		4/5/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		4/5/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		4/5/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		4/5/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		4/5/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		4/5/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		4/5/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		4/5/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		4/5/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		4/5/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		4/5/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		4/5/2016	CJR	1
cis-1,2-Dichloroethene	0.59 "J"	ug/l	0.45	1.4	1	8260B		4/5/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		4/5/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		4/5/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		4/5/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		4/5/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		4/5/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		4/5/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		4/5/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		4/5/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		4/5/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		4/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		4/5/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		4/5/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		4/5/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		4/5/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		4/5/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		4/5/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		4/5/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		4/5/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		4/5/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		4/5/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		4/5/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		4/5/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		4/5/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		4/5/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		4/5/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		4/5/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		4/5/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		4/5/2016	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		4/5/2016	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		4/5/2016	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		4/5/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		4/5/2016	CJR	1