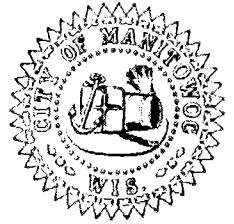


CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



October 26, 2016

Mr. & Mrs. Eric Johnson
3902 Silver Creek Road
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Johnson:

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 Monday, October 10, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031870C							Sample Type	Water	
Sample ID	3902 SILVER CREE							Sample Date	10/10/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/17/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/17/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/17/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/17/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/17/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/17/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/17/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/17/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/17/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/17/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/17/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/17/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/17/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/17/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/17/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/17/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/17/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/17/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031870C								Sample Type Water		
Sample ID 3902 SILVER CREE							Sample Date 10/10/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/17/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/17/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/17/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/17/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/17/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/17/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Tetrachloroethane	< 0.49	ug/l	0.49	1.5	1		10/17/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/17/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/17/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/17/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/17/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/17/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/17/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/17/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/17/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/17/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/17/2016	8260B	CJR	1
SUR - Toluene-d8	96	REC %			1		10/17/2016	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		10/17/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1		10/17/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1		10/17/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

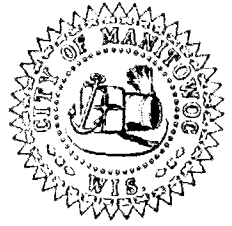
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



COPY

October 26, 2016

Mr. & Mrs. Steven Rogers
786 Garland Rd.
Winslow, ME 04910

RE: 3911 Black Hawk Ct., Manitowoc, WI

Dear Mr. & Mrs. 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 Thursday, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859S							Sample Type	Water	
Sample ID	3911 BLACKHAWK							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	0.59 "J"	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859S								Sample Type Water		
Sample ID 3911 BLACKHAWK							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	96	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

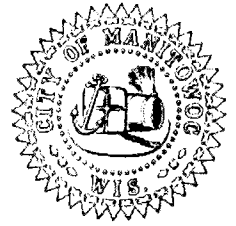
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

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

COPY

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 Wednesday, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859D							Sample Type	Water	
Sample ID	3921 BLACK HAW							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	0.63 "J"	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859D								Sample Type Water		
Sample ID 3921 BLACK HAW							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	88	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

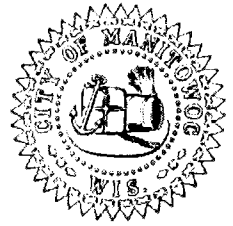
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

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

COPY

Dear Mr. McFarlane:

The City is in receipt of the third set of test results for your newly installed potable well taken on Wednesday, October 5, 2016. We are pleased to inform you that the results continue to confirm that water from your new well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water is fit for consumption, and you can use 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859M								Sample Type Water		
Sample ID 4002 THUNDER RI							Sample Date 10/5/2016			

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859M								Sample Type Water		
Sample ID 4002 THUNDER RI							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	106	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	89	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

1 All laboratory QC requirements were met for this sample.

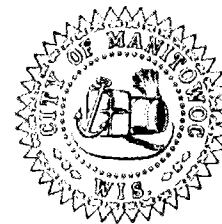
All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



October 26, 2016

Ms. Lisa Bratz
7325 Cedar View Road
Cleveland, WI 53051

COPY

RE: 4024 CTH CR

Dear Ms. Bratz:

The City has been conducting sampling of the private potable wells in the vicinity of the gravel pit. Your private well was included in the sampling that took place on Thursday, October 6, 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 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859W							Sample Type	Water	
Sample ID	4024 CTH CR							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859W								Sample Type Water		
Sample ID 4024 CTH CR							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethane	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	95	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

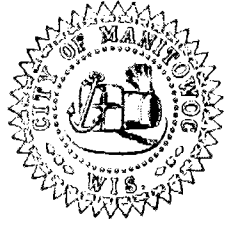
All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



COPY

October 26, 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, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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/kd

Kathleen McDaniel
City Attorney
City of Manitowoc

A handwritten signature in black ink, appearing to read "Dan Koski".

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

Attachment: Laboratory Data



Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859N							Sample Type	Water	
Sample ID	4027 THUNDER RI							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	0.96 "J"	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859N								Sample Type Water		
Sample ID 4027 THUNDER RI							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethane	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	90	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859O							Sample Type	Water	
Sample ID	4027 THUNDER RI	TUP						Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	0.77 "J"	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code	
Lab Code	50318590					Sample Type	Water				
Sample ID	4027 THUNDER RI-DWP					Sample Date	10/6/2016				
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1	
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1	
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1	
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1	
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1	
SUR - Toluene-d8	104	REC %			1		10/13/2016	8260B	CJR	1	
SUR - Dibromofluoromethane	93	REC %			1		10/13/2016	8260B	CJR	1	
SUR - 4-Bromofluorobenzene	98	REC %			1		10/13/2016	8260B	CJR	1	
SUR - 1,2-Dichloroethane-d4	102	REC %			1		10/13/2016	8260B	CJR	1	

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

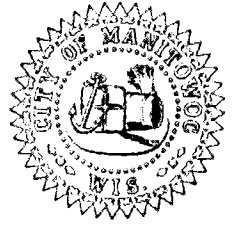
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

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

COPY

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 Monday, October 10, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031870A							Sample Type	Water	
Sample ID	4111 THUNDER RI							Sample Date	10/10/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/17/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/17/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/17/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/17/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/17/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/17/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/17/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/17/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/17/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/17/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/17/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
cis-1,2-Dichloroethene	0.56 "J"	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/17/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/17/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/17/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/17/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/17/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/17/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/17/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031870A								Sample Type Water		
Sample ID 4111 THUNDER RI							Sample Date 10/10/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/17/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/17/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/17/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/17/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/17/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/17/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/17/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/17/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/17/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/17/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/17/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/17/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/17/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/17/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/17/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/17/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/17/2016	8260B	CJR	1
SUR - Toluene-d8	102	REC %			1		10/17/2016	8260B	CJR	1
SUR - Dibromofluoromethane	99	REC %			1		10/17/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1		10/17/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1		10/17/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

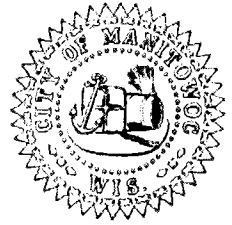
All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



October 26, 2016

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

COPY

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 Monday, October 10, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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



Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031870B							Sample Type	Water	
Sample ID	4159 SILVER CREE							Sample Date	10/10/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/17/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/17/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/17/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/17/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/17/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/17/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/17/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/17/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/17/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/17/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/17/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
cis-1,2-Dichloroethene	0.78 "J"	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/17/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/17/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/17/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/17/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/17/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/17/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/17/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext	Date	Run Date	Method	Analyst	QC Code
Lab Code 5031870B									Sample Type Water		
Sample ID 4159 SILVER CREE									Sample Date 10/10/2016		
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/17/2016	8260B	CJR	1	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/17/2016	8260B	CJR	1	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/17/2016	8260B	CJR	1	
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/17/2016	8260B	CJR	1	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/17/2016	8260B	CJR	1	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/17/2016	8260B	CJR	1	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1	
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/17/2016	8260B	CJR	1	
Toluene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/17/2016	8260B	CJR	1	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/17/2016	8260B	CJR	1	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/17/2016	8260B	CJR	1	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/17/2016	8260B	CJR	1	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/17/2016	8260B	CJR	1	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/17/2016	8260B	CJR	1	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/17/2016	8260B	CJR	1	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/17/2016	8260B	CJR	1	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/17/2016	8260B	CJR	1	
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/17/2016	8260B	CJR	1	
SUR - Toluene-d8	97	REC %			1		10/17/2016	8260B	CJR	1	
SUR - Dibromofluoromethane	106	REC %			1		10/17/2016	8260B	CJR	1	
SUR - 4-Bromofluorobenzene	94	REC %			1		10/17/2016	8260B	CJR	1	
SUR - 1,2-Dichloroethane-d4	102	REC %			1		10/17/2016	8260B	CJR	1	

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

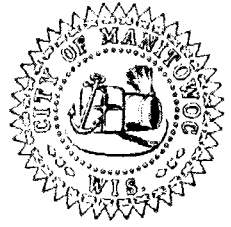
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



COPY

October 26, 2016

Mr. Thomas Vogel
2706 CTH CR
Manitowoc, WI 54220

Dear Mr. Vogel:

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, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859F							Sample Type	Water	
Sample ID	2706 CTH CR							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859F							Sample Type	Water	
Sample ID	2706 CTH CR							Sample Date	10/5/2016	
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethane	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	95	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

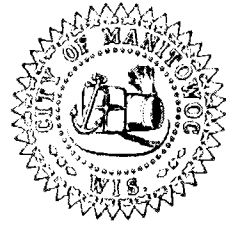
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Mr. & Mrs. Jerry Haupt
2717 CTH CR / 4141 Viebahn
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Haupt:

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, October 6, 2016.

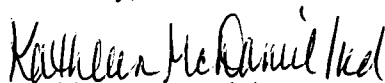
The City is in receipt of the sample results for your property. The results continue to indicate the presence of VOC's above Enforcement Standards. The results also show the presence of cis-1,2-dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). This well is for your landscape business only to be used for watering purposes and all faucets must be marked as non-potable. 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
WDNR, Remediation & Redevelopment
- Health Questions: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859U							Sample Type	Water	
Sample ID	2717 CTH CR							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	1.53	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859U								Sample Type Water		
Sample ID 2717 CTH CR							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethane	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	0.32 "J"	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	106	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	89	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

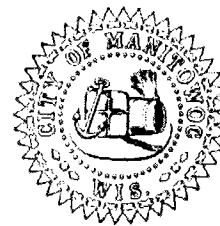
All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



October 26, 2016

Mr. & Mrs. James Eberhardt
2911 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Eberhardt:

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 Friday, October 7, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	531859CC							Sample Type	Water	
Sample ID	2911 CTH CR							Sample Date	10/7/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 531859CC								Sample Type Water		
Sample ID 2911 CTH CR							Sample Date 10/7/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	93	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

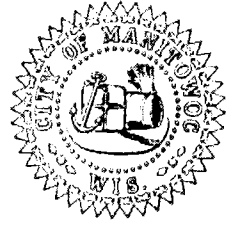
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Mrs. & Mrs. Ronald Eberhardt
3023 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Eberhardt:

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, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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

ENGINEERING DEPARTMENT ▪ 900 QUAY STREET ▪ MANITOWOC, WI 54220
(920) 686.6910 FAX: (920) 686.6906



Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext	Date	Run Date	Method	Analyst	QC Code	
Lab Code	5031859L						Sample Type	Water				
Sample ID	3023 CTH CR						Sample Date	10/5/2016				

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
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 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859L								Sample Type Water		
Sample ID 3023 CTH CR							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	93	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

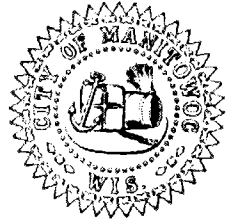
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Ms. Brenda Birringer
3027 Orchard Lane
Manitowoc, WI 54220

COPY

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, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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 # 60135471

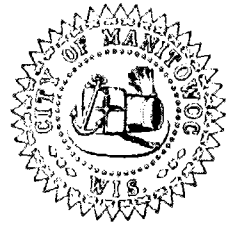
Invoice # E31859

Lab Code 5031859Z
 Sample ID 3027 ORCHARD
 Sample Matrix Water
 Sample Date 10/6/2016

	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		10/14/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		10/14/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		10/14/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		10/14/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		10/14/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		10/14/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/14/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		10/14/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		10/14/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		10/14/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		10/14/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		10/14/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		10/14/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		10/14/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		10/14/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/14/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		10/14/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		10/14/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		10/14/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/14/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/14/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		10/14/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		10/14/2016	CJR	1
cis-1,2-Dichloroethene	0.46 "J"	ug/l	0.45	1.4	1	8260B		10/14/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		10/14/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		10/14/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		10/14/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		10/14/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		10/14/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/14/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/14/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		10/14/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		10/14/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		10/14/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		10/14/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		10/14/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		10/14/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		10/14/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		10/14/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/14/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		10/14/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/14/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		10/14/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		10/14/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		10/14/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		10/14/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/14/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/14/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		10/14/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		10/14/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		10/14/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		10/14/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		10/14/2016	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		10/14/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/14/2016	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		10/14/2016	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		10/14/2016	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Mrs. & Mrs. John Shoop
3120 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Shoop:

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, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859R							Sample Type	Water	
Sample ID	3120 CTH CR							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859R								Sample Type Water		
Sample ID 3120 CTH CR							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	92	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

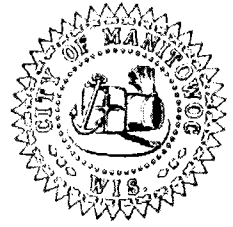
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Mr. Glen Guetschow
3312 CTH CR
Manitowoc, WI 54220

COPI

Dear Mr. Guetschow:

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, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859J							Sample Type	Water	
Sample ID	3312 CTH CR							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859J								Sample Type Water		
Sample ID 3312 CTH CR							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	93	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

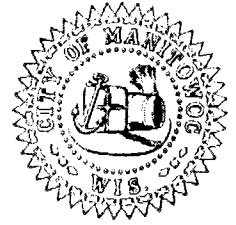
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



COPY

October 26, 2016

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

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 Wednesday, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859K							Sample Type	Water	
Sample ID	3327 HECKER RD							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	3.3	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code	
Lab Code	5031859K					Sample Type	Water				
Sample ID	3327 HECKER RD					Sample Date	10/5/2016				
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1	
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1	
Tetrachloroethane	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1	
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1	
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1	
SUR - Toluene-d8	102	REC %			1		10/13/2016	8260B	CJR	1	
SUR - Dibromofluoromethane	89	REC %			1		10/13/2016	8260B	CJR	1	
SUR - 4-Bromofluorobenzene	95	REC %			1		10/13/2016	8260B	CJR	1	
SUR - 1,2-Dichloroethane-d4	103	REC %			1		10/13/2016	8260B	CJR	1	

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

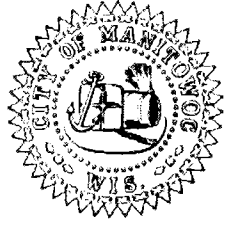
All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



COPY

October 26, 2016

Mr. James Schnuelle
3403 CTH CR
Manitowoc, WI 54220

Dear Mr. Schnuelle:

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, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859E							Sample Type	Water	
Sample ID	3403 CTH CR							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859E								Sample Type Water		
Sample ID 3403 CTH CR							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	93	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

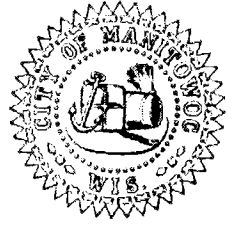
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

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

COPY

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 Thursday, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859X							Sample Type	Water	
Sample ID	3417 HECKER							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	1.23 "J"	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859X								Sample Type Water		
Sample ID 3417 HECKER							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	92	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859Y							Sample Type	Water	
Sample ID	3417 HECKER DUP							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	1.51	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code	
Lab Code	5031859Y					Sample Type	Water				
Sample ID	3417 HECKER DUP					Sample Date	10/6/2016				
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1	
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1	
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1	
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1	
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1	
SUR - Toluene-d8	102	REC %			1		10/14/2016	8260B	CJR	1	
SUR - Dibromofluoromethane	89	REC %			1		10/14/2016	8260B	CJR	1	
SUR - 4-Bromofluorobenzene	98	REC %			1		10/14/2016	8260B	CJR	1	
SUR - 1,2-Dichloroethane-d4	98	REC %			1		10/14/2016	8260B	CJR	1	

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

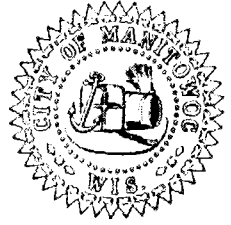
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Mr. Gary Bialek
3420 Orchard Ln
Manitowoc, WI 54220

COPY

Dear Mr. Bialek:

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, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859T							Sample Type	Water	
Sample ID	3420 ORCHARD							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859T								Sample Type Water		
Sample ID 3420 ORCHARD							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethane	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	94	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

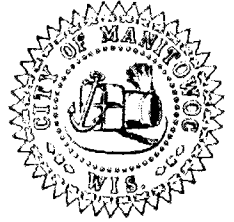
All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



October 26, 2016

Mr. Jeffrey P. Nelson
3422 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. Nelson:

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, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859C							Sample Type	Water	
Sample ID	3422 CTH CR							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859C							Sample Type Water			
Sample ID 3422 CTH CR							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	88	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



COPY

October 26, 2016

Mr. Michael Rogers
3303 Hecker Road
Manitowoc, WI 54220

Dear Mr. Rogers:

The City is in receipt of the second set of sample results taken on September 26, 2016 for the new well installed on your property. We are pleased to inform you that the results continue to confirm that water from your new well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water is fit for consumption, and you can use 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: Adam Streiffer (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



Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVERCENTER DRIVE
MILWAUKEE, WI 53212

Report Date 07-Oct-16

Project Name NEWTON PIT
Project # 60135471.

Invoice # E31812

Lab Code 5031812A
Sample ID 3303 HECKER
Sample Matrix Water
Sample Date 9/26/2016

	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		10/6/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		10/6/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		10/6/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		10/6/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		10/6/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/6/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		10/6/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		10/6/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		10/6/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		10/6/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		10/6/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		10/6/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		10/6/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		10/6/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/6/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		10/6/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		10/6/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		10/6/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/6/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		10/6/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		10/6/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		10/6/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		10/6/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		10/6/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		10/6/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		10/6/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		10/6/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/6/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/6/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		10/6/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		10/6/2016	CJR	1

Project Name NEWTON PIT
Project # 60135471.

Invoice # E31812

Lab Code 5031812A
Sample ID 3303 HECKER
Sample Matrix Water
Sample Date 9/26/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		10/6/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		10/6/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		10/6/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		10/6/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		10/6/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		10/6/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		10/6/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		10/6/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/6/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		10/6/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		10/6/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		10/6/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		10/6/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/6/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		10/6/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		10/6/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		10/6/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		10/6/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		10/6/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		10/6/2016	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/6/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	107	REC %			1	8260B		10/6/2016	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		10/6/2016	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		10/6/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

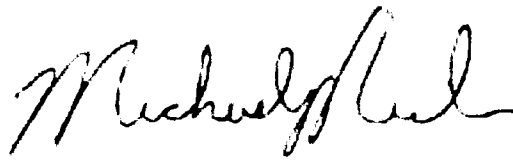
LOQ Limit of Quantitation

Code **Comment**

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



CHAIN OF STUDY RECORD

12:25
12:40

Synergy

Chain # NR 2705

Page 1 of 1

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
Account No.: _____ Quote No.: _____
Project #: 60135471
Sampler (signature): D.S. Henderson

Project (Name / Location): Newton Pit
Reports To: DAVE HENDERSON Invoice To: Same
Company: AECOM Company: _____
Address: 1533 River Center Address: _____
City State Zip: Milw WI 53212 City State Zip: _____
Phone: 536 414 429 8304 Phone: _____
FAX: _____ FAX: _____

Analysis Requested										Other Analysis				
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtrated Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
3303	<u>3303 Hecker</u>	<u>12/26</u>	<u>12:40</u>		<u>A</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>AC</u>

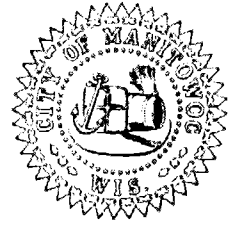
Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
 Method of shipment: _____
 Temp. Blank: _____
 Detector must read upon receipt: Yes No

Relinquished By: (sign) D.S. Henderson Time _____ Date _____
 Received By: (sign) _____ Time _____ Date _____
 Received in Laboratory By: Christina Time: 10:00 Date: 10/1/16

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

COPY

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 Thursday, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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



Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859P							Sample Type	Water	
Sample ID	3618 CTH CR							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	0.88 "J"	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859P								Sample Type Water		
Sample ID 3618 CTH CR							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	91	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

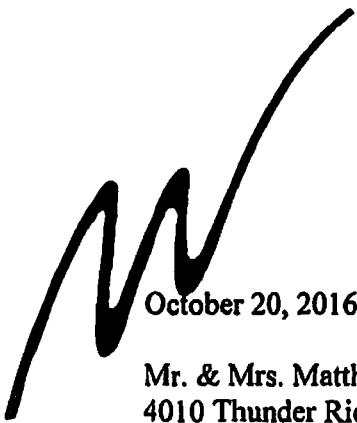
LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____



CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



COPY

October 20, 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 Friday, October 7, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of VOC's 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). We recommend you use the bottled water for both 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: Adam Streiffer (608) 266-9337
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

City Attorney Kathleen M. McDaniel • Staff Attorney Elizabeth Majerus
CITY HALL • 900 Quay Street • Manitowoc, WI 54220-4543
Phone (920) 686-6990 • Fax (920) 686-6999



Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext	Date	Run Date	Method	Analyst	QC Code	
Lab Code	531859BB						Sample Type	Water				
Sample ID	4010 THUNDER RI						Sample Date	10/7/2016				

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	1.27 "J"	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 531859BB								Sample Type Water		
Sample ID 4010 THUNDER RI							Sample Date 10/7/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	0.27 "J"	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	89	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

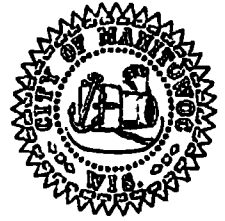
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 20, 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 Monday, October 10, 2016.

The City is in receipt of the sample results for your property. The results indicate the presence of VOC's 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). We recommend you use the bottled water for both 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: Adam Streiffer (608) 266-9337
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

City Attorney Kathleen M. McDaniel • Staff Attorney Elizabeth Majerus
CITY HALL • 900 Quay Street • Manitowoc, WI 54220-4543
Phone (920) 686-6990 • Fax (920) 686-6999



Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031870D							Sample Type	Water	
Sample ID	4005 THUNDER RI							Sample Date	10/10/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/17/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/17/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/17/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/17/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/17/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/17/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/17/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/17/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/17/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/17/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/17/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
cis-1,2-Dichloroethene	1.35 "J"	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/17/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/17/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/17/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/17/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/17/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/17/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/17/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031870D								Sample Type Water		
Sample ID 4005 THUNDER RI							Sample Date 10/10/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/17/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/17/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/17/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/17/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/17/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/17/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/17/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/17/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/17/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/17/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/17/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/17/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/17/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/17/2016	8260B	CJR	1
Vinyl Chloride	0.29 "J"	ug/l	0.17	0.54	1		10/17/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/17/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/17/2016	8260B	CJR	1
SUR - Toluene-d8	96	REC %			1		10/17/2016	8260B	CJR	1
SUR - Dibromofluoromethane	106	REC %			1		10/17/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1		10/17/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1		10/17/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

1 All laboratory QC requirements were met for this sample.

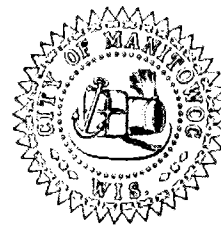
All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



October 26, 2016

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

COPY

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 Tuesday, October 11, 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). This test was conducted before the new well installation. Until we receive laboratory results for the new well, which was tested October 24, 2016, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031870E							Sample Type	Water	
Sample ID	3504 CTH CR							Sample Date	10/11/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/17/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/17/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/17/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/17/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/17/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/17/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/17/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/17/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/17/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/17/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/17/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
cis-1,2-Dichloroethene	1.17 "J"	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/17/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/17/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/17/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/17/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/17/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/17/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/17/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext	Date	Run Date	Method	Analyst	QC Code
Lab Code 5031870E								Sample Type Water			
Sample ID 3504 CTH CR								Sample Date 10/11/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/17/2016	8260B	CJR	1	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/17/2016	8260B	CJR	1	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/17/2016	8260B	CJR	1	
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/17/2016	8260B	CJR	1	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/17/2016	8260B	CJR	1	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/17/2016	8260B	CJR	1	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1	
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/17/2016	8260B	CJR	1	
Toluene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/17/2016	8260B	CJR	1	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/17/2016	8260B	CJR	1	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/17/2016	8260B	CJR	1	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/17/2016	8260B	CJR	1	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/17/2016	8260B	CJR	1	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/17/2016	8260B	CJR	1	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/17/2016	8260B	CJR	1	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/17/2016	8260B	CJR	1	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/17/2016	8260B	CJR	1	
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/17/2016	8260B	CJR	1	
SUR - Toluene-d8	95	REC %			1		10/17/2016	8260B	CJR	1	
SUR - Dibromofluoromethane	109	REC %			1		10/17/2016	8260B	CJR	1	
SUR - 4-Bromofluorobenzene	99	REC %			1		10/17/2016	8260B	CJR	1	
SUR - 1,2-Dichloroethane-d4	112	REC %			1		10/17/2016	8260B	CJR	1	

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

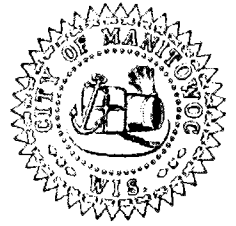
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Mrs. & Mrs. Dennis Vogel
3515 Hecker Road
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Vogel:

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, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext	Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859A								Sample Type	Water	
Sample ID	3515 HECKER RD								Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859A								Sample Type Water		
Sample ID 3515 HECKER RD							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	94	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

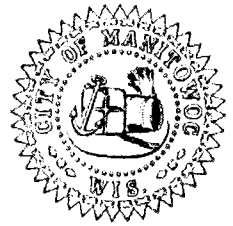
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



COPY

October 26, 2016

Ms. Luann Yindra
3518 Hecker Road
Manitowoc, WI 54220

Dear Ms. Yindra:

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, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859Q							Sample Type	Water	
Sample ID	3518 HECKER							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859Q								Sample Type Water		
Sample ID 3518 HECKER							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	106	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	89	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

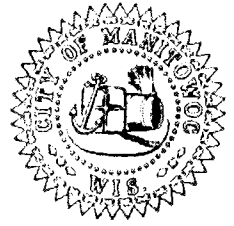
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Newport Home - Manager
3609 Hecker Road
Manitowoc, WI 54220

COPY

Dear Program Manager:

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, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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

Cc: ORP Real Estate Holdings
Attn: Dave Nagy
1746 Executive Drive
Oconomowoc, WI 53066



Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859B							Sample Type	Water	
Sample ID	3609 HECKER RD							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859B								Sample Type Water		
Sample ID 3609 HECKER RD							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	94	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

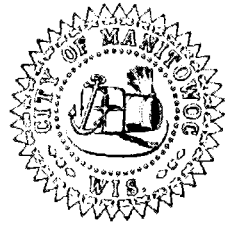
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Ms. Ansorge & Mr. Gadzinski
11105 Newton Rd
Newton, WI 53063

COPY

RE: 3611 CTH CR

Dear Ms. Ansorge & Mr. Gadzinski:

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, October 5, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

Again, we very much appreciate your patience as we work 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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859G							Sample Type	Water	
Sample ID	3611 CTH CR							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859G								Sample Type Water		
Sample ID 3611 CTH CR							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
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1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	93	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

Mr. & Mrs. Jason Kaderabek
3625 Hecker Rd
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Jason Kaderabek:

The City has been conducting sampling of the private potable wells in the vicinity of the gravel pit. Your private well was included in the sampling that took place on Wednesday, October 5, 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:

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WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178
WDNR, Remediation & Redevelopment
- Health Questions: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859H							Sample Type	Water	
Sample ID	3625 HECKER RD							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859H								Sample Type Water		
Sample ID 3625 HECKER RD							Sample Date 10/5/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Tetrachloroethane	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/13/2016	8260B	CJR	1
SUR - Dibromofluoromethane	91	REC %			1		10/13/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		10/13/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1		10/13/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859I							Sample Type	Water	
Sample ID	3625 HECKER RD D 6A							Sample Date	10/5/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/13/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/13/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/13/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/13/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/13/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/13/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/13/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/13/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/13/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/13/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/13/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/13/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/13/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/13/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/13/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/13/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/13/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/13/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/13/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/13/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/13/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/13/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/13/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

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 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext	Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859I									Sample Type Water		
Sample ID 3625 HECKER RD DW4 ^g									Sample Date 10/5/2016		
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/13/2016	8260B	CJR	1	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/13/2016	8260B	CJR	1	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/13/2016	8260B	CJR	1	
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/13/2016	8260B	CJR	1	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/13/2016	8260B	CJR	1	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/13/2016	8260B	CJR	1	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/13/2016	8260B	CJR	1	
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/13/2016	8260B	CJR	1	
Toluene	< 0.44	ug/l	0.44	1.4	1		10/13/2016	8260B	CJR	1	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/13/2016	8260B	CJR	1	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/13/2016	8260B	CJR	1	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/13/2016	8260B	CJR	1	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/13/2016	8260B	CJR	1	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/13/2016	8260B	CJR	1	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/13/2016	8260B	CJR	1	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/13/2016	8260B	CJR	1	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/13/2016	8260B	CJR	1	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/13/2016	8260B	CJR	1	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/13/2016	8260B	CJR	1	
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/13/2016	8260B	CJR	1	
SUR - Toluene-d8	105	REC %			1		10/13/2016	8260B	CJR	1	
SUR - Dibromofluoromethane	91	REC %			1		10/13/2016	8260B	CJR	1	
SUR - 4-Bromofluorobenzene	99	REC %			1		10/13/2016	8260B	CJR	1	
SUR - 1,2-Dichloroethane-d4	104	REC %			1		10/13/2016	8260B	CJR	1	

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

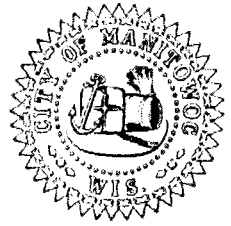
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

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

COPY

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 Tuesday, October 11, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031870F							Sample Type	Water	
Sample ID	3702 HECKER							Sample Date	10/11/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/17/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/17/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/17/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/17/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/17/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/17/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/17/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/17/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/17/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/17/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/17/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/17/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/17/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/17/2016	8260B	CJR	1
cis-1,2-Dichloroethene	1.04 "J"	ug/l	0.45	1.4	1		10/17/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/17/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/17/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/17/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/17/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/17/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/17/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/17/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/17/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

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 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31870

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031870F								Sample Type Water		
Sample ID 3702 HECKER							Sample Date 10/11/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/17/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/17/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/17/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/17/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/17/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/17/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/17/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/17/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/17/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/17/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/17/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/17/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/17/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/17/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/17/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/17/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/17/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/17/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/17/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/17/2016	8260B	CJR	1
SUR - Toluene-d8	98	REC %			1		10/17/2016	8260B	CJR	1
SUR - Dibromofluoromethane	105	REC %			1		10/17/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1		10/17/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	111	REC %			1		10/17/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code **Comment**

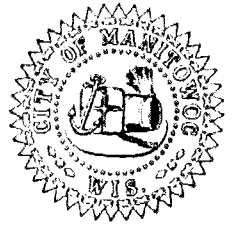
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



October 26, 2016

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

COPY

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, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	531859AA							Sample Type	Water	
Sample ID	3817 VIEBAHN							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	0.47 "J"	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 531859AA								Sample Type Water		
Sample ID 3817 VIEBAHN							Sample Date 10/6/2016			
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	88	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

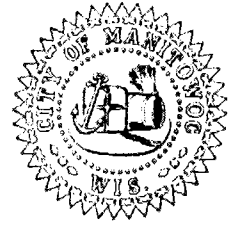
1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



COPY

October 26, 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, October 6, 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: Adam Streiffer (608) 266-9337
WDNR, Remediation & Redevelopment

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, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
 Project Name NEWTON GRAVEL PIT
 Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code	5031859V							Sample Type	Water	
Sample ID	3825 VIEBAHN							Sample Date	10/6/2016	

Organic

VOC's

Benzene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1		10/14/2016	8260B	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1		10/14/2016	8260B	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1		10/14/2016	8260B	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1		10/14/2016	8260B	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1		10/14/2016	8260B	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1		10/14/2016	8260B	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1		10/14/2016	8260B	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1		10/14/2016	8260B	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1		10/14/2016	8260B	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1		10/14/2016	8260B	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1		10/14/2016	8260B	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1		10/14/2016	8260B	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1		10/14/2016	8260B	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1		10/14/2016	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1		10/14/2016	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1		10/14/2016	8260B	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1		10/14/2016	8260B	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1		10/14/2016	8260B	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1		10/14/2016	8260B	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1		10/14/2016	8260B	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1		10/14/2016	8260B	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1		10/14/2016	8260B	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1		10/14/2016	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
 AECOM
 1555 N RIVERCENTER DRIVE
 MILWAUKEE, WI 53212

Project # 60135471
Project Name NEWTON GRAVEL PIT
Invoice # E31859

Report Date 19-Oct-16

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5031859V							Sample Type Water			
Sample ID 3825 VIEBAHN						Sample Date 10/6/2016				
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1		10/14/2016	8260B	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1		10/14/2016	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1		10/14/2016	8260B	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1		10/14/2016	8260B	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1		10/14/2016	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1		10/14/2016	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1		10/14/2016	8260B	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1		10/14/2016	8260B	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1		10/14/2016	8260B	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1		10/14/2016	8260B	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1		10/14/2016	8260B	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1		10/14/2016	8260B	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1		10/14/2016	8260B	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1		10/14/2016	8260B	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1		10/14/2016	8260B	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1		10/14/2016	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1		10/14/2016	8260B	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1		10/14/2016	8260B	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1		10/14/2016	8260B	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1		10/14/2016	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		10/14/2016	8260B	CJR	1
SUR - Dibromofluoromethane	88	REC %			1		10/14/2016	8260B	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1		10/14/2016	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1		10/14/2016	8260B	CJR	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____