From: Kasdorf, James H Jr - DNR
Sent: Friday, November 30, 2018 7:10 AM
To: Karen Dorow
Cc: Chronert, Roxanne N - DNR; Beggs, Tauren R - DNR
Subject: RE: 3412 CTH CR Newton, Manitowoc, WI

Dear Karen:

Yes, I first spoke to Ms. Smotherman on two occasions yesterday. Ms. Smotherman is located at 3412 Co Rd CR in Newton, Manitowoc County. Ms. Smotherman explains that she was away and that her well developed some problems while she was away. Ms. Smotherman seems to be upset about several things, including not understanding why some of her neighbors got new wells and why no one put in a new well for her.

Ms. Smotherman understands that her well was sampled by AECOM, and she does not understand the differences between sampling for VOCs (AECOM's work) and conducting private well testing on her own well. The private well testing includes sampling for bacteria, nitrate and arsenic. I explained these differences to her. Ms. Smotherman remains frustrated and upset, and expressed that she did not think it was right for her to incur costs and pay for the private water sample tests for her own well.

The problems described with this private well, as having black water and a rotten-egg smell, can be associated with sulfur bacteria. Sulfur bacteria is not regulated by the DNR's private water program and sulfur bacteria is not considered to be a health hazard. A series of flushing and sanitizing the well along with confirmation sampling may restore the water quality.

I suggested that Ms. Smotherman contact a licensed well driller or licensed pump installer to flush her well and/or sanitize and flush the well and then have the well sampled for the private water parameters (bacteria, nitrate, arsenic), and then contact the DNR so we can discuss the results. DNR's standard practice is to recommend that well owners have their wells sampled whenever there is a perceived water quality change in water from a private well. And, the DNR does not sample private wells in these circumstances. Additionally, I suggested that Ms. Smotherman contact either the Wisconsin State Lab of Hygiene or the County Health Department to obtain a private well sampling kit. Ms. Smotherman indicated that she already has Culligan as a water service provider.

The help I was able to provide Ms. Smotherman included the recommendation to have her well flushed and/or flushed and sanitized and then sampled for bacteria, arsenic and nitrate. I also recommended that Ms. Smotherman find an alternate source of water in the interim. DNR remains very willing to discuss the results of this testing with Ms. Smotherman. The DNR, however, does not perform the service of doing the testing in these circumstances. Ms. Smotherman's expectation was that DNR should to do this work for her. The DNR is also willing to help Ms. Smotherman interpret any recommendations she may receive from a licensed well contractor. Ms. Smotherman was not able to provide any details about her private well.

Feel free to contact me if you have any other questions. Thank you.

Jim Kasdorf
Phone: (920) 387-7872
James.KasdorfJr@Wisconsin.gov

From: Karen Dorow <kdorow@manitowoc.org>
Sent: Thursday, November 29, 2018 11:22 AM
To: Kasdorf, James H Jr - DNR <James.KasdorfJr@wisconsin.gov>
Cc: Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>; Kathleen McDaniel <kmcdaniel@manitowoc.org>; Dan Koski <dkoski@manitowoc.org>
Subject: 3412 CTH CR

Good Morning Jim,

I received a call from Louise Smotherman this morning from 3412 CTH CR. She was very upset about the phone call she had with you and is very frustrated.

Background:
When I called her to set up her well testing appointment she said that her potable water smells like sewage and is very concerned about it. I asked AECOM to check it out when they did her potable well testing. AECOM let us know that the odor was different than an iron bacteria odor. He said the odor was not pleasant. She spoke with Dave Henderson from AECOM and he directed her to you as a resource.

It is my understanding that you were not able to help her. You requested that she send you copies of her last couple of potable well testing reports. These are attached. Her well tested clean for VOCs. We are waiting for results from the testing last week.

She said today that she has two sump pumps in her basement about 5 feet apart. She just had both replaced in June. One is clear the other is black with a rotten egg/manure/sewage smell.

What are the recommendations you would give to a property owner in this situation to help them figure out what is going on with their potable water?

Karen Dorow | Business Manager
City of Manitowoc
900 Quay Street
Manitowoc, WI 54220
Office (920) 686-6514
Mobile (920) 374-0404

Project Name NEWTON GRAVEL PIT **Invoice #** E33810
Project #

Lab Code 5033810G
Sample ID 3412 CTH CR
Sample Matrix Water
Sample Date 10/25/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		10/31/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		10/31/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		10/31/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		10/31/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		10/31/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		10/31/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		10/31/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		10/31/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		10/31/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		10/31/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		10/31/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		10/31/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		10/31/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		10/31/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		10/31/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		10/31/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		10/31/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		10/31/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		10/31/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		10/31/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		10/31/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		10/31/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		10/31/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		10/31/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		10/31/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		10/31/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		10/31/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		10/31/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		10/31/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		10/31/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/31/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		10/31/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		10/31/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		10/31/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		10/31/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		10/31/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		10/31/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		10/31/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		10/31/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		10/31/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		10/31/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		10/31/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		10/31/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		10/31/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		10/31/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		10/31/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		10/31/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		10/31/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		10/31/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		10/31/2017	CJR	1

Project Name NEWTON GRAVEL PIT **Invoice #** E33810
Project #

Lab Code 5033810G
Sample ID 3412 CTH CR
Sample Matrix Water
Sample Date 10/25/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		10/31/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		10/31/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		10/31/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		10/31/2017	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		10/31/2017	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/31/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/31/2017	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/31/2017	CJR	1

Synergy Environmental Lab, LLC

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

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E28074

Report Date *19-Nov-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5028074D							**Sample Type** Water			
Sample ID 3412 CTH CR							**Sample Date** 11/10/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		11/17/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		11/17/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		11/17/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		11/17/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		11/17/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		11/17/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		11/17/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		11/17/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		11/17/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		11/17/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		11/17/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		11/17/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		11/17/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		11/17/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		11/17/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		11/17/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		11/17/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		11/17/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		11/17/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		11/17/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		11/17/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		11/17/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		11/17/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		11/17/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		11/17/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		11/17/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		11/17/2014	8260B	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		11/17/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		11/17/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		11/17/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		11/17/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		11/17/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		11/17/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

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Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E28074

Report Date *19-Nov-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5028074D						**Sample Type** Water				
Sample ID 3412 CTH CR						**Sample Date** 11/10/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		11/17/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		11/17/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		11/17/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		11/17/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		11/17/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		11/17/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		11/17/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		11/17/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		11/17/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		11/17/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		11/17/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		11/17/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		11/17/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		11/17/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		11/17/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		11/17/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		11/17/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		11/17/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		11/17/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		11/17/2014	8260B	CJR	1
SUR - Toluene-d8	99	REC %			1		11/17/2014	8260B	CJR	1
SUR - Dibromofluoromethane	95	REC %			1		11/17/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		11/17/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1		11/17/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

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Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E28074

Report Date *19-Nov-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

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.
6	The surrogate recovery not within established limits.
8	Closing calibration standard not within established 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 _____