

## Letter of Transmittal

---

Attention:	Mr. Tauren Beggs Hydrogeologist, WDNR 2984 Shawano Ave Green Bay, WI 54313	Date:	3/18/21
Project reference:	Former Newton Pit BRRTS No. 02-36-000268	Project number:	60135471

---

---

**We are sending you the following:**

Number of originals:	Number of copies:	Description:
One	Zero	November 2020 VOC Semi-Annual Potable Well Monitoring Letter Report

---

Mr. Beggs,

Attached is the November 2020 VOC Semi-Annual Potable Well Monitoring Letter Report for the Former Town of Newton Gravel Pit, Manitowoc Wisconsin.

Please let me know if you have any questions.

Thank you.



---

David Henderson, P.E.  
Senior Project Manager  
D 414.944.6190 C 414.429.8304  
[dave.henderson@aecom.com](mailto:dave.henderson@aecom.com)

Cc: Kathleen M. McDaniel, City Attorney, City of Manitowoc  
Dan Koski, Director of Public Infrastructure, City of Manitowoc

March 18, 2021

Mr. Tauren Beggs  
Hydrogeologist  
Wisconsin Department of Natural  
Resources  
2984 Shawano Avenue  
Green Bay WI 54313-6727

**Subject: November 2020 VOC Semi-Annual Potable Well Monitoring Letter Report  
Former Town of Newton Gravel Pit  
BRRTS No. 02-36-000268  
AECOM Project No: 60135471(82518)**

Dear Mr. Beggs:

AECOM Technical Services, Inc. (AECOM), on the behalf of the City of Manitowoc, is pleased to submit this Semi-Annual Potable Well Monitoring Letter Report for wells in the vicinity of the Former Town of Newton Gravel Pit site (See Figure 1). The report provides the results from the November 2020 volatile organic compounds (VOCs) sampling event.

Presented below are site background information, VOC sampling methodologies, and the VOC potable well monitoring results.

## **BACKGROUND INFORMATION**

Regular monitoring has been ongoing since November 2013, when VOCs were discovered in private potable wells near the Former Town of Newton Gravel Pit. This VOC sampling event was conducted in accordance with the Wisconsin Department of Natural Resources (WDNR) approved *Five Year Potable Well Monitoring Work Plan*<sup>1</sup>. The Work Plan grouped the potable wells into the following categories:

- Target Zone Wells – wells with detectable VOC contaminants of concern (COCs).
- Target Zone Sentinel Wells – wells within the Target Zone and do not have detectable VOC COCs.
- Sentinel Zone Wells – wells outside and adjacent to the Target Zone that do not have detectable VOC COCs.
  - Sentinel Zone 3-Year Wells – Sentinel Zone Wells which will be sampled once every three years on a rotating schedule.
  - Sentinel Zone 5-Year Wells – Sentinel Zone Wells which will be sampled once every five years on a rotating schedule.
- Replacement Wells – wells that were replaced due to regulatory standard exceedances of VOC COCs.

---

<sup>1</sup> *Five Year Potable Well Monitoring Work Plan, Former Town of Newton Gravel Pit*, AECOM, May 8, 2017

- Upgradient and Historically Sampled Wells – wells outside the Sentinel Zone that have been sampled in the past but are not currently scheduled to be sampled.
- Former Potable Wells Now Connected to City Water – wells that were replaced with connections to the City of Manitowoc public water supply that are not currently scheduled to be sampled.

**VOC SAMPLING METHODOLOGY**

The VOC sampling occurred on November 17 and 18, 2020. In total, 33 addresses were scheduled for sampling and 26 addresses were sampled. Seven well locations were not sampled due to non-responsive homeowners. Details of the monitoring event are as follows.

Semi-Annual Target Zone Wells VOC Sampling Address	
2201 Elm Rd	4101 Thunder Ridge Rd
3027 Orchard Ln	4111 Thunder Ridge Rd
3921 Blackhawk Ct	4127 Thunder Ridge Rd
3817 Viebahn St	3327 Hecker Rd
4159 Silver Creek Rd	3461(3417) Hecker Rd
3618 CTH CR	3702 Hecker Rd
	3008 S 26TH St

The following Target Zone addresses were not sampled during this event due to non-responsive homeowners:

- 2832 (2904) CTH CR, this well location continues to be non-responsive to confirmation sampling requests related to an October 2019 vinyl chloride ES exceedance.
- 3911 Blackhawk Ct
- 4024 CTH CR
- 4027 Thunder Ridge Rd

Annual Target Zone Sentinel Wells VOC Sampling Address
2911 CTH CR
3224 CTH CR
3312 CTH CR
3322 CTH CR
3412 CTH CR
3422 CTH CR
3533 CTH CR
3611 CTH CR
3627 CTH CR
3825 Viebahn St

The following Target Zone Sentinel Well addresses were not sampled during this event either due to non-responsive homeowners or a scheduling error:

- 3320 Hecker Rd
- 3523 CTH CR
- 3626(3626B) CTH CR

3-Year Sentinel Zone Wells VOC Sampling Address
2717 CTH CR (4141 Viebahn St) non-potable well

5-Year Sentinel Zone Wells VOC Sampling Address
3524 Orchard Ln. 4004 Silver Creek Rd

Replacement Well VOC Sampling Address
Not Applicable for this sampling event

Historically Sampled Well Outside 5-Year Sentinel Zone VOC Sampling Address
Not Applicable for this sampling event

VOC samples were collected following purging from a cold water tap or spigot as near to the well as possible, and preferably before any storage/pressure tanks or physical/chemical treatment system that might be present.

Samples for VOC laboratory analyses were collected in three 40-ml glass vials with hydrochloric acid preservative and Teflon septa. The vials were filled to the top, leaving no headspace or bubbles, and then quickly capped. Samples were labeled and stored on ice for shipment, under chain of custody, to the laboratory.

Samples for VOC analysis were submitted to a Wisconsin Administrative Code (WAC) Chapter NR 149 certified commercial laboratory (Synergy Environmental Lab, Inc., Appleton, Wisconsin) for analyses by EPA Method 8260B.

## **VOC MONITORING RESULTS**

The results from the November 2020 VOC sampling event are discussed below and presented in Table 1 and on Figure 2. During this period a total of 26 VOC samples (not including water quality and quality control samples) were obtained from 26 wells.

### Laboratory VOC Analytical Results

The laboratory analytical data indicates that VOC compounds are present in 13 of the potable well water samples. The current results are similar to historical results. The concentration of the VOC COCs found in the potable well water samples were compared to applicable WAC Chapter NR 140 Table 1 Public Health Enforcement Standards (ESs) and Preventive Action Limits (PALs).

The laboratory analytical results are presented categorically as follows:

- VOC COCs with NR 140 ES exceedances
- VOC COCs with NR 140 PAL exceedances
- Detected VOC COCs with no regulatory exceedances
- Observed changes in analytical results since the last monitoring event

VOC COCs with NR 140 ES exceedances: There were two wells that had an ES exceedance for vinyl chloride. There were no wells with cis-1,2-dce ES exceedances.

ES Exceedances Vinyl Chloride
3817 Viebahn 3008 S 26TH St

VOC COCs with NR 140 PAL exceedances: There were no wells that had detections above the PAL and below the ES for vinyl chloride or cis-1,2-dce.

PAL Exceedances
No wells with PAL exceedances

Detected COCs with No Regulatory Exceedances: There was a total of 12 potable wells that only had a COC (cis-1,2-dce) below regulatory (PAL) limits for the November 2020 sampling event.

Cis-1,2-dichloroethene Detects	
2201 Elm Rd	4111 Thunder Ridge
4127 Thunder Ridge	3921 Blackhawk Ct
3027 Orchard Ln	4101 Thunder Ridge
3702 Hecker Rd	3618 CTH CR
4159 Silver Creek	3417(3461) Hecker Rd
3327 Hecker Rd	2717 CTH CR (4141 Viebahn St) non-potable well

One well, located at 2911 CTH CR, had Toluene detected below the PAL. Toluene is not a COC for the potable well sampling associated with the Former Town of Newton Gravel Pit.

A total of 11 wells had no VOCs detected above laboratory method detection limits (MDLs).

A summary of the sampled wells with detected VOC laboratory analytical results is presented in Table 1 and on Figure 2. Table 2, electronic file on CD only, provides a summary of the VOC analytical results for all wells sampled. The laboratory VOC analytical reports are provided in Attachment A.

### Observed VOC Changes Since Last Monitoring Event

The following changes were noted in the VOC analytical results since the June 2020 sampling event:

- One well had a recurring vinyl chloride ES exceedance, which had historical ES exceedances.
  - 3817 Viebahn Street. This address continues to receive bottled water for drinking water use.
- The following well has fluctuated vinyl chloride from an ES exceedance to levels below MDLs but had cis-1,2-dce detections.
  - 3027 Orchard Lane
  - 2717 CTH CR. 2717 CTH CR (4141 Viebahn St) is a non-potable well.
- The following well has a cis-1,2-dce detection but is below the PAL.
  - 3702 Hecker Rd, this well had periodic cis-1,2-dce detects.

### Updates to VOC Potable Well Monitoring Work Plan

The WDNR has approved a VOC Five Year Potable Well Monitoring Work Plan dated May 8, 2017. The sampling schedule in the Work Plan for the November 2020 sampling event has been updated based on the June 2020 results. The revised potable well monitoring schedule from the Work Plan is presented on Table 3, attached.

### **SUMMARY**

The following is a summary of the November 2020 potable well monitoring event.

A total of 26 VOC samples were obtained from 26 wells. A total of seven addresses were not sampled during this event due to non-responsive homeowners.

VOC laboratory analytical results indicate continued vinyl chloride ES exceedances at 3817 Viebahn Street and 3008 South 26th Street. The address 2832 (2904) CTH CR continues to be non-responsive to confirmation sampling requests related to an October 2019 vinyl chloride ES exceedance.

There were no vinyl chloride or cis-1,2-dce PAL exceedances.

There was a total of 12 potable wells that only had cis-1,2-dce detects below regulatory (PAL) limits.

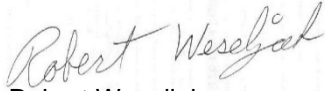
There was a Toluene detect, a non-COC, at 2911 CTH CR but it was below the PAL.

A total of 11 wells had no VOCs detected above laboratory MDLs.

The next semi-annual VOC potable well monitoring event is scheduled for May/June 2021. At that time, VOC sampling will be conducted in accordance with the Five Year Potable Well Monitoring Work Plan as updated in Table 3 or in accordance with a newly proposed VOC Five Year Potable Well Monitoring Plan.

If you have any questions regarding these results, please contact Dave Henderson at 414.944.6190 or [dave.henderson@aecom.com](mailto:dave.henderson@aecom.com).

Yours sincerely,  
AECOM Technical Services, Inc.



Robert Weseljak  
Project Scientist



David Henderson, P.E.  
Project Manager

Cc: Kathleen M. McDaniel, City Attorney, City of Manitowoc  
Dan Koski, Director of Public Infrastructure, City of Manitowoc  
Jim Kasdorf, Water Supply Specialist, WDNR

Attachments:

- Table 1 – Summary of VOC Contaminants Detected in Potable Wells
- Table 2 – Summary of Contaminants (Except PFAS) Analyzed in Potable Wells (CD only)
- Table 3 – Summary of Five Year Potable Well Sampling Plan
- Figure 1 – Site Location
- Figure 2 – November 2020, VOC Potable Well Sampling Results
- Attachment A: VOC Laboratory Reports

**Tables:**

- Table 1, Summary of VOC Contaminates Detected in Potable Wells
- Table 2 – Summary of Contaminants (Except PFAS) Analyzed in Potable Wells (CD only)
- Table 3, Summary of Five Year Potable Well Sampling Plan



Table 1  
SUMMARY OF VOC CONTAMINANTS DETECTED IN POTABLE WELLS

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3114 Hecker Rd				3303 Hecker Rd								
				10/22/13 Outside Spigot	11/8/13 Outside Spigot	5/28/14 Outside Spigot	6/4/20 Outside Spigot	Original Potable Well								
								10/23/13 Basement	11/7/13 Basement	6/3/14 Basement	06/03/14 (DUP) Basement	11/17/14 Basement	2/23/15 Basement	10/13/15 Basement	3/30/16 Basement	
<b>Volatle Organic Compounds (VOCs) (µg/L):</b>																
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.39	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.33	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.39	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.44	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	1.36 J	< 0.81	< 0.81	< 0.8	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.38	< 0.39	< 0.38	< 0.38	0.68 J	0.68 J	< 0.38	< 0.38	< 0.45	1.94	2.53
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.26	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.37	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	0.44 J	0.51 J
<b>Total Metals</b>																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3303 Hecker Rd							3327 Hecker Rd							
				Replacement Potable Well							10/23/13 Outside Spigot	11/7/13 Outside Spigot	5/28/14 Outside Spigot	8/25/14 Outside Spigot	11/10/14 Outside Spigot	2/23/15 Kitchen Sink	10/14/15 Outside Spigot	3/31/16 Kitchen Sink
				8/8/16 Basement	9/26/16 Basement	10/24/16 Basement	10/24/16 Basement-Vial 2	10/24/16 Basement-Vial 3	11/8/16 Basement	6/4/20 Basement								
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>																		
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.39	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.33	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	6.8	< 1	2.6	J	< 1	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.39	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.44	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 0.8	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.39	11	11.6	6.4	6.9	5.6	4.3	4.2	3.2
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.37	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
<b>Total Metals</b>																		
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																		
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	1374	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3327 Hecker Rd										3461(3417) Hecker Rd					
				10/5/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	05/21/18 (DUP) Outside Spigot	11/20/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	10/21/19 (DUP) Outside Spigot	6/3/20 Outside Spigot	11/17/20 Outside Spigot	10/24/13 Inside Sink	11/12/13 Inside Sink	5/30/14 Inside Sink	8/26/14 Inside Sink	11/10/14 Inside Sink
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>																			
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5	< 0.5	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39	< 0.39	< 0.41	< 0.41	< 0.41	< 0.41
Benzene	ug/l	5	0.5	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33	< 0.24	< 0.24	< 0.24	< 0.24
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.39	< 0.24	< 0.24	< 0.24	< 0.24
Chloroform	ug/l	6	0.6	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44	< 0.44	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	ug/l	30	3	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8	< 0.8	< 0.81	< 0.81	< 0.81	< 0.81
cis-1,2-Dichloroethene	ug/l	70	7	3.3	2.38	4	4.5	4.2	4	3.6	3.07	3.4	3.6	4	2.58	2.15	2.12	1.79	1.49
Methylene Chloride	ug/l	5	0.5	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	ug/l	800	160	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26	< 0.69	< 0.69	< 0.69	< 0.69
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.37	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18
<b>Total Metals</b>																			
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																			
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3461(3417) Hecker Rd												
				2/24/15 Inside Sink	10/13/15 Inside Sink	3/30/16 Inside Sink	03/30/16 (DUP) Inside Sink	10/06/16 (DUP) Inside Sink	5/31/17 Inside Sink	10/25/17 Inside Sink	5/21/18 Inside Sink	11/20/18 Inside Sink	6/27/19 Inside Sink	10/22/19 Inside Sink	6/3/20 Inside Sink	11/18/20 Inside Sink
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>																
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39	< 0.39
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	0.32 J	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.39
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44	< 0.44
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	1.59	1.6	1.66	1.74	1.51	0.55 J	1.35	1.87	1.75	1.89	1.78	1.66	1.85
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	0.25 J	< 0.26	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
<b>Total Metals</b>																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3515 Hecker Rd						3515 Hecker Rd						
				Original Potable Well						Replacement Potable Well			Replacement Potable Well			
				10/22/13	11/7/13	11/7/13	11/22/13	5/28/14	8/28/14	9/29/14	11/4/14	2/23/15	10/14/15	10/5/16	6/4/20	
				Outside Spigot	Inside Kitchen	Inside Kitchen	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	
<b>Volatle Organic Compounds (VOCs) (µg/L):</b>																
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	NA	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.39
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.39
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.44
Chloromethane	ug/l	30	3	1.02 J	< 0.81	< 0.81	NA	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	7.4	7.4	7.2	NA	10	7.8	< 0.38	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	< 0.39
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.32
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	NA	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	NA	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.37
Vinyl chloride	ug/l	0.2	0.02	0.22 J	0.24 J	0.24 J	NA	0.47 J	0.28 J	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.2
<b>Total Metals</b>																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																
Arsenic	ug/l	10	1	NA	NA	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	150	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	0.34 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	0.061 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1504	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2156	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3518 Hecker Rd								3518 Hecker Rd						
				Original Potable Well			Replacement Potable Well					Replacement Potable Well						
				10/23/13 Outside Spigot	11/7/13 Inside Kitchen	11/7/13 Outside Spigot	3/11/14 Outside Spigot	03/11/14 (DUP) Outside Spigot	3/31/14 Outside Spigot	4/22/14 Outside Spigot	05/29/14 (DUP) Outside Spigot	8/25/14 Outside Spigot	11/10/14 Outside Spigot	2/23/15 Pressure Tank	10/14/15 Pressure Tank	10/6/16 Pressure Tank	6/4/20 Pressure Tank	
<b>Volatiles Organic Compounds (VOCs) (µg/L):</b>																		
1,1-Dichloroethene	ug/l	7	0.7	1.62	< 4	< 4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	0.42 J	< 4.1	< 4.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.39
Benzene	ug/l	5	0.5	1.74	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.39
Chloroform	ug/l	6	0.6	< 0.28	< 2.8	< 2.8	< 0.28	< 0.28	0.45 J	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.44
Chloromethane	ug/l	30	3	< 0.81	< 8.1	< 8.1	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	510	530	510	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	< 0.39
Methylene Chloride	ug/l	5	0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.32
Toluene	ug/l	800	160	< 0.69	< 6.9	< 6.9	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	5.5	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.37
Vinyl chloride	ug/l	0.2	0.02	102	92	86	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.2
<b>Total Metals</b>																		
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																		
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1448	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2064	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

3609 Hecker Rd												
Original Potable Well												
Analyte	Units	ES	PAL	10/22/13 Outside Spigot	11/7/13 Inside Kitchen	11/7/13 Inside Kitchen	11/22/13 Outside Spigot	5/28/14 Outside Spigot	05/28/14 (DUP) Outside Spigot	7/11/14 Pressure Tank	8/25/14 Pressure Tank	08/25/14 (DUP) Pressure Tank
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>												
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	NA	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	NA	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
cis-1,2-Dichloroethene	ug/l	70	7	<b>45</b>	<b>46</b>	<b>45</b>	NA	<b>49</b>	<b>49</b>	<b>51</b>	<b>35</b>	<b>36</b>
Methylene Chloride	ug/l	5	0.5	<b>0.82 J</b>	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	NA	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	<b>0.39 J</b>	NA	<b>0.42 J</b>	<b>0.37 J</b>	< 0.35	< 0.35	< 0.35
Vinyl chloride	ug/l	0.2	0.02	<b>1</b>	<b>1.02</b>	<b>1.09</b>	NA	<b>7.4</b>	<b>7.6</b>	<b>8.6</b>	<b>4.6</b>	<b>5.2</b>
<b>Total Metals</b>												
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>												
Arsenic	ug/l	10	1	NA	NA	NA	0.32 J	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	65	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	0.56 J	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	< 0.049	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>												
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA



SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3609 Hecker Rd						3702 Hecker Rd						
				Replacement Potable Well						10/22/13 Outside Spigot	11/12/13 Outside Spigot	6/3/14 Outside Spigot	8/25/14 Outside Spigot	11/13/14 Outside Spigot	10/14/15 Outside Spigot	10/14/15 (DUP) Outside Spigot
				9/29/14 Pressure Tank	11/4/14 Pressure Tank	2/24/15 Pressure Tank	10/13/15 Pressure Tank	10/5/16 Pressure Tank	6/4/20 Pressure Tank							
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>																
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.39	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.33	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.39	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.44	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.8	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	< 0.39	0.71 J	0.61 J	< 0.38	< 0.38	< 0.38	0.48 J	0.73 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.26	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.37	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17
<b>Total Metals</b>																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	1591	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	2264	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3702 Hecker Rd									
				3/31/16 Pressure Tank	10/11/16 Pressure Tank	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	11/20/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	6/4/20 Outside Spigot	11/17/20 Outside Spigot
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>													
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39	< 0.39
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.39
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44	< 0.44
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	< 0.45	1.04 J	0.51 J	< 0.41	< 0.37	< 0.37	0.4 J	< 0.37	< 0.39	0.55 J
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
<b>Total Metals</b>													
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>													
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>													
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

4159 Silver Creek Rd															
Analyte	Units	ES	PAL	12/12/13 Pressure Tank	1/6/14 Pressure Tank	6/4/14 Pressure Tank	06/04/14 (DUP) Pressure Tank	9/8/14 Pressure Tank	11/10/14 Pressure Tank	11/10/14 (DUP) Pressure Tank	2/23/15 Pressure Tank	10/14/15 Pressure Tank	3/30/16 Pressure Tank	10/10/16 Pressure Tank	5/30/17 Pressure Tank
<b>Volatle Organic Compounds (VOCs) (µg/L):</b>															
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3
cis-1,2-Dichloroethene	ug/l	70	7	0.49 J	0.73 J	0.72 J	0.64 J	0.54 J	0.59 J	0.52 J	0.56 J	0.55 J	0.59 J	0.78 J	0.52 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
<b>Total Metals</b>															
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>															
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	4159 Silver Creek Rd							2717 CTH CR(4141 Viebahn St)					
				10/25/17 Pressure Tank	5/21/18 Pressure Tank	11/20/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank	6/3/20 Pressure Tank	11/18/20 Pressure Tank	Original Potable Well					
											8/25/14 Pressure Tank	9/8/14 Pressure Tank	09/08/14 (DUP) Pressure Tank	11/10/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>																
1,1-Dichloroethene	ug/l	7	0.7	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5	< 0.5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39	< 0.39	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48
Benzene	ug/l	5	0.5	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.39	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44	< 0.44	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8	< 0.8	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	0.67 J	0.94 J	0.77 J	0.71 J	0.69 J	0.78 J	0.89 J	1.4	1.31	1.44	1.3	1.26 J	1.72
Methylene Chloride	ug/l	5	0.5	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.37	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	<b>0.21 J</b>	<b>0.29 J</b>	<b>0.31 J</b>	<b>0.39 J</b>	<b>0.35 J</b>	<b>0.47 J</b>
<b>Total Metals</b>																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	2717 CTH CR(4141 Viebahn St)					2734(2804) CTH CR						
				Non-Potable Well (City Water Provided Dec 2016)					Original Potable Well (City Water Provided Dec 2016)						
				3/31/16 Garage Faucet	10/6/16 Garage Faucet	10/22/19 Outside Faucet	6/4/20 Outside Faucet	11/18/20 Outside Faucet	6/3/14 Garage Spigot	8/25/14 Garage Spigot	11/10/14 Garage Spigot	11/25/14 Garage Spigot	11/25/14 (DUP) Garage Spigot	2/24/15 Pressure Tank	10/14/15 Pressure Tank
<b>Volatiles Organic Compounds (VOCs) (µg/L):</b>															
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.42	< 0.5	< 0.5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.25	< 0.39	< 0.39	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.22	< 0.33	< 0.33	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.26	< 0.39	< 0.39	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.26	< 0.44	< 0.44	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 0.54	< 0.8	< 0.8	< 0.81	< 0.81	< 0.81	< 0.81	24.3	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.45	1.53	2.09	1.72	0.92 J	0.77 J	0.77 J	0.63 J	0.93 J	1.02 J	0.7 J	0.94 J
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.19	< 0.26	< 0.26	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 0.34	< 0.37	< 0.37	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.17	0.32 J	0.46 J	0.54 J	< 0.2	< 0.18	< 0.18	0.26 J	0.38 J	0.43 J	0.2 J	0.45 J
<b>Total Metals</b>															
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>															
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	2832&2904 CTH CR						2916 CTH CR							
				Original Potable Well						Original Potable Well (City Water Provided Dec 2016)							
				2/4/14 Kitchen Sink	6/3/14 Kitchen Sink	3/30/16 Kitchen Sink	10/27/17 Kitchen Sink	10/11/18 Kitchen Sink	10/22/19 Other Building	2/4/14 Pressure Tank	5/28/14 Pressure Tank	8/25/14 Pressure Tank	11/10/14 Pressure Tank	11/25/14 Pressure Tank	3/11/15 Pressure Tank	03/11/15 (DUP) Pressure Tank	10/13/15 Pressure Tank
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>																	
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.46	< 0.42	< 0.42	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.48	< 0.45	< 0.25	< 0.25	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.17	< 0.22	< 0.22	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.27	< 0.26	< 0.26	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.96	< 0.26	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.3	< 0.54	< 0.54	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.45	< 0.41	< 0.37	0.44 J	0.97 J	0.9 J	1.02 J	0.74 J	0.82 J	0.75 J	0.8 J	1.02 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 0.94	< 1.32	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.67	< 0.19	< 0.19	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.35	< 0.34	< 0.34	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.19	< 0.2	0.25 J	0.18 J	< 0.18	< 0.18	0.28 J	0.37 J	< 0.17	0.18 J	0.26 J
<b>Total Metals</b>																	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	2917 CTH CR					3023 CTH CR									
				Original Potable Well (City Water Provided Dec 2016)					Original Potable Well				Replacement Potable Well					
				2/4/14 Kitchen Sink	5/30/14 Kitchen Sink	10/13/15 Spigot	10/27/15 Spigot	10/27/15 (DUP) Spigot	2/4/14 Outside Spigot	02/04/14 (DUP) Outside Spigot	6/2/14 Outside Spigot	8/25/14 Outside Spigot	10/8/14 Outside Spigot	11/4/14 Outside Spigot	2/24/15 Outside Spigot	10/13/15 Outside Spigot	10/5/16 Outside Spigot	
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>																		
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.48	< 0.48	< 0.48	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	1.6	1.41	1.67	2.84	2.96	2.87	2.34	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	< 0.45
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	0.43	0.37	0.37	0.55	0.58	0.41	0.33	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17
<b>Total Metals</b>																		
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																		
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1545	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2164	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3120 CTH CR						3120 CTH CR					
				Original Potable Well						Replacement Potable Well					
				1/3/14 Pressure Tank	2/4/14 Pressure Tank	5/28/14 Pressure Tank	05/28/14 (DUP) Pressure Tank	8/25/14 Pressure Tank	08/25/14 (DUP) Pressure Tank	10/8/14 Pressure Tank	11/4/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	10/6/16 Pressure Tank	
<b>Volatle Organic Compounds (VOCs) (µg/L):</b>															
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	2.74	2.86	2.65	2.68	1.89	2.23	< 0.38	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	0.6	0.43	0.35	0.26	0.27	0.24	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
<b>Total Metals</b>															
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>															
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1309	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1966	NA



TABLE 1

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3403 CTH CR								
				Original Potable Well				Replacement Potable Well				
				1/3/14 Kitchen Sink	2/5/14 Kitchen Sink	5/28/14 Kitchen Sink	8/25/14 Kitchen Sink	10/21/14 Kitchen Sink	11/4/14 Kitchen Sink	2/23/15 Kitchen Sink	10/13/15 Kitchen Sink	10/5/16 Outside Spigot
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>												
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	1.3	1.67	1.48	1.34	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	0.56 J	0.25 J	0.22 J	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
<b>Total Metals</b>												
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>												
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>												
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	1688	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	2349	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

3504 CTH CR																		
Original Potable Well																		
Analyte	Units	ES	PAL	12/5/13 Outside Spigot	12/05/13 (DUP) Outside Spigot	1/6/14 Basement	01/06/14 (DUP) Basement	2/5/14 Basement	5/30/14 Basement	05/30/14 (DUP) Basement	8/25/14 Basement	08/25/14 (DUP) Basement	11/18/14 Basement	11/18/14 (DUP) Basement	2/23/15 Basement	10/14/15 Basement	10/20/15 Basement	3/31/16 Basement
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>																		
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	NA	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	NA	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	NA	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	NA	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	NA	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	NA	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	1.28	1.38	1.43	1.34	1.42	1.22	1.13 J	0.99 J	1.02 J	1.41	1.26	1.19 J	1.27 J	NA	0.76 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	NA	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	NA	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	NA	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.18	0.23 J	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	0.18 J	0.17 J	NA	< 0.17
<b>Total Metals</b>																		
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																		
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	413	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	698	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3504 CTH CR					3618 CTH CR								
				Original Potable Well		Replacement Potable Well			1/3/14 Kitchen Sink	5/29/14 Kitchen Sink	8/25/14 Kitchen Sink	11/10/14 Kitchen Sink	2/23/15 Kitchen Sink	10/14/15 Pressure Tank	3/30/16 Kitchen Sink	10/6/16 Kitchen Sink	5/30/17 Kitchen Sink
				03/31/16 (DUP) Basement	10/11/16 Basement	10/24/16 Basement	11/8/16 Basement	2/23/17 Basement									
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>																	
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3
cis-1,2-Dichloroethene	ug/l	70	7	0.91 J	1.17 J	< 0.45	< 0.45	< 0.41	1.24	1.16 J	0.48 J	0.83 J	0.95 J	0.89 J	1.06 J	0.88 J	0.99 J
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
<b>Total Metals</b>																	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	1380	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	2330	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3618 CTH CR						4024 CTH CR				
				10/25/17 Kitchen Sink	5/21/18 Kitchen Sink	10/10/18 Kitchen Sink	6/27/19 Kitchen Sink	10/21/19 Kitchen Sink	11/17/20 Kitchen Sink	12/12/13 Spigot in Barn	5/28/14 Spigot in Barn	10/6/16 Pressure Tank	10/22/19 Pressure Tank	6/4/20 Pressure Tank
<b>Volatle Organic Compounds (VOCs) (µg/L):</b>														
1,1-Dichloroethene	ug/l	7	0.7	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5	< 0.4	< 0.4	< 0.65	< 0.42	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39	< 0.41	< 0.41	< 0.48	< 0.25	< 0.39
Benzene	ug/l	5	0.5	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33	< 0.24	< 0.24	< 0.44	< 0.22	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.24	< 0.24	< 0.46	< 0.26	< 0.39
Chloroform	ug/l	6	0.6	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44	< 0.28	< 0.28	< 0.43	< 0.26	< 0.44
Chloromethane	ug/l	30	3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8	< 0.81	< 0.81	< 1.9	< 0.54	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	0.95 J	1.23	1.14 J	1 J	1.09 J	1.3	< 0.38	< 0.38	< 0.45	0.51 J	0.56 J
Methylene Chloride	ug/l	5	0.5	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 1.3	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26	< 0.69	< 0.69	< 0.44	< 0.19	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.35	< 0.35	< 0.54	< 0.34	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.17	< 0.2	< 0.2
<b>Total Metals</b>														
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>														
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>														
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	4002 Thunder Ridge Rd										
				Original Potable Well						Replacement Potable Well				
				1/3/14 Pressure Tank	8/25/14 Pressure Tank	10/13/15 Pressure Tank	10/13/15 (DUP) Pressure Tank	10/27/15 Pressure Tank	3/31/16 Pressure Tank	03/31/16 (DUP) Pressure Tank	5/23/16 Pressure Tank	6/2/16 Pressure Tank	6/23/16 Pressure Tank	10/5/16 Pressure Tank
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>														
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	1.67	1.29	1.3 J	1.14 J	1.26 J	0.68 J	1.03 J	< 0.45	< 0.45	< 0.45	< 0.45
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	0.2 J	0.18 J	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
<b>Total Metals</b>														
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>														
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>														
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1753
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2450

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

4005 Thunder Ridge Rd																		
Analyte	Units	ES	PAL	Original Potable Well								Replacement Potable Well						
				5/29/14 Outside Spigot	8/26/14 Outside Spigot	11/11/14 Outside Spigot	2/23/15 Outside Spigot	10/14/15 Outside Spigot	3/30/16 Outside Spigot	10/10/16 Outside Spigot	10/24/16 Outside Spigot	11/8/16 Outside Spigot	5/30/17 Pressure Tank	5/30/17 Pressure Tank	6/22/17 Pressure Tank	8/17/17 Pressure Tank	3/5/18 Pressure Tank	
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>																		
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.46	NA
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.45	< 0.45	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.17	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.27	NA
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.96	NA
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 1.3	NA
cis-1,2-Dichloroethene	ug/l	70	7	0.83 J	0.9 J	< 0.38	0.81 J	0.91 J	0.97 J	1.35 J	1.1 J	0.66 J	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	NA
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 0.94	NA
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.67	< 0.67	NA
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	NA
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	0.29 J	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.19	< 0.19	NA
<b>Total Metals</b>																		
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.3
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	317
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.9
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	113
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.9
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.67
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4240
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.5
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29000
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7
<b>Dissolved Metals</b>																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.24	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																		
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1873	1573	NA	1696	1860
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2706	2700	NA	2714	2700

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

4010 Thunder Ridge Rd																
Analyte	Units	ES	PAL	Original Potable Well						Replacement Potable Well						
				5/28/14	8/26/14	2/24/15	10/20/15	3/31/16	10/7/16	10/24/16	5/31/17	5/31/17	6/22/17	8/17/17	3/5/18	
				Outside Spigot	Outside Spigot	Pressure Tank	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank	
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>																
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.46	NA
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.45	< 0.45	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.17	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.27	NA
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.96	NA
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 1.3	NA
cis-1,2-Dichloroethene	ug/l	70	7	1.37	1.18 J	1.43	1.27 J	1.47	1.27 J	1.42	1.42	< 0.41	< 0.41	< 0.41	< 0.41	NA
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 0.94	NA
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.67	< 0.67	NA
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	NA
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	0.27 J	0.2 J	< 0.19	< 0.19	< 0.19	< 0.19	NA
<b>Total Metals</b>																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	262
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	113
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.8
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.9
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.52
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4890
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68.4
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28200
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.2
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.2
<b>Dissolved Metals</b>																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	8.72	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	1588	1576	NA	1732	1888
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	2658	2652	NA	2702	2630

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	4027 Thunder Ridge Rd								
				5/29/14 Outside Spigot	11/11/14 Outside Spigot	11/11/14 (DUP) Outside Spigot	2/24/15 Pressure Tank	10/13/15 Pressure Tank	3/31/16 Pressure Tank	10/6/16 Pressure Tank	10/06/16 (DUP) Pressure Tank	
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>												
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	
cis-1,2-Dichloroethene	ug/l	70	7	0.59 J	0.6 J	0.53 J	0.48 J	0.67 J	0.71 J	0.96 J	0.77 J	
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	
<b>Total Metals</b>												
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Dissolved Metals</b>												
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Miscellaneous (mg/L)</b>												
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	



TABLE 1

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	4027 Thunder Ridge Rd							
				5/30/17 Pressure Tank	10/25/17 Pressure Tank	5/21/18 Pressure Tank	5/31/18 Pressure Tank	10/10/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank	6/3/20 Pressure Tank
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>											
1,1-Dichloroethene	ug/l	7	0.7	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39
Benzene	ug/l	5	0.5	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39
Chloroform	ug/l	6	0.6	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44
Chloromethane	ug/l	30	3	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	0.87 J	1.08 J	1.32	1 J	1.58	1.03 J	1.24	1.37
Methylene Chloride	ug/l	5	0.5	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.19	< 0.19	0.28 J	< 0.2	0.2 J	< 0.2	< 0.2	< 0.2
<b>Total Metals</b>											
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>											
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>											
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	377	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	534	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	4101 Thunder Ridge Rd														
				8/26/14 Outside Spigot	11/17/14 Outside Spigot	3/11/15 Pressure Tank	10/14/15 Outside Spigot	3/30/16 Outside Spigot	11/8/16 Outside Spigot	5/30/17 Outside Spigot	5/30/17 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	10/10/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	11/17/20 Outside Spigot
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>																		
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	0.73 J	0.63 J	0.76 J	0.87 J	0.71 J	1.02 J	0.73 J	0.7 J	0.68 J	0.84 J	1.32	1.09 J	1.1 J	1.13 J	1.2
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
<b>Total Metals</b>																		
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																		
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

4111 Thunder Ridge Rd																			
Analyte	Units	ES	PAL	8/25/14 Outside Spigot	11/17/14 Outside Spigot	2/23/15 Outside Spigot	10/13/15 Outside Spigot	3/30/16 Pressure Tank	10/10/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	10/25/17 (DUP) Outside Spigot	5/21/18 Pressure Tank	6/5/18 Pressure Tank	10/11/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank	6/3/20 Pressure Tank	11/17/20 Pressure Tank
<b>Volatiles Organic Compounds (VOCs) (ug/L):</b>																			
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39	< 0.39
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.39
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44	< 0.44
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	0.41 J	< 0.38	< 0.45	< 0.45	< 0.45	0.56 J	0.56 J	0.65 J	0.6 J	1.05 J	0.55 J	0.86 J	0.75 J	0.65 J	1.11 J	1.15 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.19	0.21 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
<b>Total Metals</b>																			
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																			
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	616	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	4127 Thunder Ridge Rd							3617(3621) Viebahn St					
											(Well Abandoned, City Water Provided)					
				12/5/13 Outside Spigot	5/29/14 Outside Spigot	3/30/16 Outside Spigot	6/27/19 Outside Spigot	10/30/19 Outside Spigot	6/3/20 Outside Spigot	11/18/20 Outside Spigot	11/7/14 Pressure Tank	11/19/14 Pressure Tank	2/24/15 Pressure Tank	02/24/15 (DUP) Pressure Tank	10/13/15 Pressure Tank	3/30/16 Pressure Tank
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>																
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.42	< 0.42	< 0.5	< 0.5	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.48	< 0.25	< 0.25	< 0.39	< 0.39	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.22	< 0.22	< 0.33	< 0.33	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.26	< 0.26	< 0.39	< 0.39	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.26	< 0.26	< 0.44	< 0.44	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 0.54	< 0.54	< 0.8	< 0.8	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.45	0.72 J	0.38 J	0.58 J	0.49 J	1.13 J	1.12 J	0.92 J	0.87 J	1.3 J	1.12 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.32	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.19	< 0.19	< 0.26	< 0.26	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.34	< 0.34	< 0.37	< 0.37	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.2	< 0.2	< 0.2	< 0.2	0.48 J	0.4 J	< 0.17	0.18 J	0.23 J	< 0.17
<b>Total Metals</b>																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3701 Viebahn St						3815 Viebahn St					
				Original Potable Well (City Water Provided Dec 2016)						Original Potable Well (City Water Provided Dec 2016)					
				10/29/14 Pressure Tank	11/7/14 Pressure Tank	11/07/14 (DUP) Pressure Tank	2/23/15 Pressure Tank	02/23/15 (DUP) Pressure Tank	10/14/15 Pressure Tank	10/14/15 (DUP) Pressure Tank	11/7/14 Pressure Tank	11/19/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	10/13/15 (DUP) Pressure Tank
<b>Volatle Organic Compounds (VOCs) (µg/L):</b>															
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48	< 0.48	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	1.23	1.18 J	1.29	1.31 J	1.09 J	1.55	1.48	0.74 J	0.94 J	0.9 J	1 J	1.12 J
Methylene Chloride	ug/l	5	0.5	1.5 J	1.17 J	1.12 J	< 1.3	< 1.3	< 1.3	< 1.3	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	0.29 J	0.32 J	0.49 J	0.31 J	0.33 J	0.34 J	0.37 J	0.33 J	0.31 J	0.25 J	0.2 J	0.32 J
<b>Total Metals</b>															
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>															
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

3817 Viebahn St																	
Analyte	Units	ES	PAL	10/29/14 Outside Spigot	11/7/14 Outside Spigot	2/24/15 Pressure Tank	10/20/15 Outside Spigot	3/31/16 Outside Spigot	10/6/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	10/11/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	6/4/20 Outside Spigot	11/17/20 Outside Spigot
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>																	
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39	< 0.39
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.39
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44	< 0.44
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	0.4 J	< 0.38	< 0.45	0.49 J	< 0.45	0.47 J	0.5 J	0.55 J	0.7 J	0.44 J	0.51 J	0.57 J	0.48 J	0.82 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	0.25 J	< 0.2	0.3 J
<b>Total Metals</b>																	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	4025 Viebahn St				4101 Viebahn St				3027 Orchard Ln							
				Original Potable Well (City Water Provided Dec 2016)				City Water Provided 2016)				2/5/14	6/4/14	8/28/14	11/11/14	3/11/15	10/14/15	3/31/16	
				10/29/14	11/7/14	2/24/15	10/13/15	10/29/14	11/7/14	2/24/15	10/14/15								Pressure Tank
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>																			
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.4	< 0.4	< 0.65	< 0.65	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.41	< 0.41	< 0.54	< 0.48	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.24	< 0.24	< 0.44	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.24	< 0.24	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.28	< 0.28	< 0.43	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 0.81	< 0.81	< 1.9	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	1.38	1.46	1.11 J	1.85	1.48	1.13 J	1.24 J	1.59	0.47 J	0.39 J	0.49 J	< 0.38	< 0.45	0.59 J	< 0.45	< 0.45
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 0.5	< 0.5	< 1.3	< 1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	0.95 J	< 0.69	< 0.44	< 0.44	< 0.69	< 0.69	< 0.44	< 0.44	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.35	< 0.35	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	0.34 J	0.31 J	0.32 J	0.44 J	0.38 J	0.39 J	0.43 J	0.54	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
<b>Total Metals</b>																			
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																			
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3027 Orchard Ln							
				10/6/16 Pressure Tank	5/31/17 Pressure Tank	10/31/17 Pressure Tank	5/31/18 Pressure Tank	11/21/18 Pressure Tank	10/22/19 Pressure Tank	6/3/20 Pressure Tank	11/17/20 Pressure Tank
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>											
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.5	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.39	< 0.39
Benzene	ug/l	5	0.5	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.39	< 0.39
Chloroform	ug/l	6	0.6	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.44	< 0.44
Chloromethane	ug/l	30	3	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.8	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	0.46 J	0.54 J	< 0.41	< 0.37	0.57 J	0.58 J	0.6 J	0.52 J
Methylene Chloride	ug/l	5	0.5	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.37	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	0.3 J	< 0.2
<b>Total Metals</b>											
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>											
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>											
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA



SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	3911 Black Hawk Ct								
				7/8/15 Spigot	10/6/16 Pressure Tank	5/31/17 Pressure Tank	10/30/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank	6/10/20 Pressure Tank
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>												
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	< 0.45	0.59 J	< 0.41	< 0.41	0.58 J	0.58 J	0.5 J	0.61 J	0.53 J
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
<b>Total Metals</b>												
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>												
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>												
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

3921 Black Hawk Ct																				
Analyte	Units	ES	PAL	2/4/14 Pressure Tank	6/2/14 Pressure Tank	8/26/14 Pressure Tank	11/10/14 Pressure Tank	2/24/15 Pressure Tank	10/14/15 Pressure Tank	3/31/16 Pressure Tank	10/5/16 Pressure Tank	5/30/17 Pressure Tank	10/25/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	10/10/18 (DUP) Pressure Tank	6/27/2019 Pressure Tank	10/22/19 Pressure Tank	6/10/20 Pressure Tank	11/17/20 Pressure Tank
<b>Volatile Organic Compounds (VOCs) (ug/L):</b>																				
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.5	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.39	< 0.39
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.33	< 0.33
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.39
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.44	< 0.44
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.8	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	0.87 J	0.97 J	1.14 J	0.65 J	0.93 J	1.04 J	0.71 J	0.63 J	0.57 J	0.51 J	0.95 J	0.9 J	0.79 J	0.79 J	0.92 J	0.78 J	1.19 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
<b>Total Metals</b>																				
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>																				
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>																				
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	2918 S 26TH St									3008 S 26TH St					
				Original Potable Well			Replacement Potable Well						11/08/17 <sup>(3)</sup> Spigot W Side	12/14/17 <sup>(3)</sup> Basement Tap	6/27/19 <sup>(3)</sup> Basement Tap	10/22/19 Basement Tap	6/4/20 Basement Tap	11/17/20 Basement Tap
				8/15/2017 <sup>(4)</sup> Exterior Spigot	9/5/17 Pressure Tank	09/05/17 (DUP) Pressure Tank	12/11/17 Pressure Tank	12/11/17 (DUP) Pressure Tank	3/5/18 Pressure Tank	3/5/18 Pressure Tank	6/27/19 Pressure Tank							
<b>Volatle Organic Compounds (VOCs) (µg/L):</b>																		
1,1-Dichloroethene	ug/l	7	0.7	< 0.5	< 0.46	< 0.46	< 0.46	< 0.46	NA	< 0.42	< 0.42	< 0.5	< 0.5	< 0.42	< 0.42	< 0.5	< 0.5	
1,2-Dichloroethane	ug/l	5	0.5	< 0.5	< 0.45	< 0.45	< 0.45	< 0.45	NA	< 0.25	< 0.25	< 0.5	< 0.5	< 0.25	< 0.25	< 0.39	< 0.39	
Benzene	ug/l	5	0.5	< 0.3	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.22	< 0.22	< 0.3	< 0.3	< 0.22	< 0.22	< 0.33	< 0.33	
Carbon disulfide	ug/l	1000	200	< 0.3	NA	NA	NA	NA	NA	NA	NA	< 0.3	< 0.3	NA	NA	NA	NA	
Chlorobenzene	ug/l	100	20	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.26	< 0.26	< 0.25	< 0.25	< 0.26	< 0.26	< 0.39	< 0.39	
Chloroform	ug/l	6	0.6	< 0.25	< 0.96	< 0.96	< 0.96	< 0.96	NA	< 0.26	< 0.26	< 0.25	< 0.25	< 0.26	< 0.26	< 0.44	< 0.44	
Chloromethane	ug/l	30	3	< 1	< 1.3	< 1.3	< 1.3	< 1.3	NA	< 0.54	< 0.54	< 1	< 1	< 0.54	< 0.54	< 0.8	< 0.8	
cis-1,2-Dichloroethene	ug/l	70	7	1.1	0.85 J	0.75 J	< 0.41	< 0.41	NA	< 0.37	< 0.37	1	0.85	0.77 J	0.9 J	0.92 J	0.78 J	
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.94	< 0.94	< 0.94	< 0.94	NA	< 1.32	< 1.32	< 0.5	< 0.5	< 1.32	< 1.32	< 1.32	< 1.32	
Toluene	ug/l	800	160	< 0.25	< 0.67	< 0.67	< 0.67	< 0.67	NA	< 0.19	< 0.19	< 0.25	< 0.25	< 0.19	< 0.19	< 0.26	< 0.26	
trans-1,2-Dichloroethene	ug/l	100	20	< 0.5	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.34	< 0.34	< 0.5	< 0.5	< 0.34	< 0.34	< 0.37	< 0.37	
Vinyl chloride	ug/l	0.2	0.02	0.21 J	0.26 J	0.24 J	< 0.19	< 0.19	NA	< 0.2	< 0.2	0.47	0.55	< 0.2	0.25 J	0.3 J	0.26 J	
<b>Total Metals</b>																		
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	7.9	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	280	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	4.8	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	19.9	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	12.1	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	4.94	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	3110	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	123	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	30600	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	9.09	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	8.9	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Dissolved Metals</b>																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Miscellaneous (mg/L)</b>																		
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	1898	NA	1853	NA	NA	NA	NA	459	NA	NA	NA	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	3007	NA	2980	NA	NA	NA	NA	712	NA	NA	NA	

TABLE 1

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES	PAL	2201 Elm Road				
				12/19/17 <sup>(3)</sup> Basement Tap	2/14/18 <sup>(3)</sup> Basement Tap	6/27/19 <sup>(3)</sup> Basement Tap	6/4/20 <sup>(3)</sup> Basement Tap	11/17/20 <sup>(3)</sup> Basement Tap
<b>Volatile Organic Compounds (VOCs) (µg/L):</b>								
1,1-Dichloroethene	ug/l	7	0.7	< 0.5	< 0.22	< 0.42	< 0.5	< 0.5
1,2-Dichloroethane	ug/l	5	0.5	< 0.5	< 0.16	< 0.25	< 0.39	< 0.39
Benzene	ug/l	5	0.5	< 0.3	< 0.1	< 0.22	< 0.33	< 0.33
Carbon disulfide	ug/l	1000	200	< 0.3	< 1	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.25	< 0.27	< 0.26	< 0.39	< 0.39
Chloroform	ug/l	6	0.6	< 0.25	< 0.1	< 0.26	< 0.44	< 0.44
Chloromethane	ug/l	30	3	< 1	< 0.89	< 0.54	< 0.8	< 0.8
cis-1,2-Dichloroethene	ug/l	70	7	0.51	0.55	< 0.37	0.44 J	0.42 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.15	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.25	< 0.29	< 0.19	< 0.26	< 0.26
trans-1,2-Dichloroethene	ug/l	100	20	< 0.5	< 0.22	< 0.34	< 0.37	< 0.37
Vinyl chloride	ug/l	0.2	0.02	< 0.2	0.2	< 0.2	< 0.2	< 0.2
<b>Total Metals</b>								
Barium	ug/l	2000	400	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA
<b>Dissolved Metals</b>								
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA
<b>Miscellaneous (mg/L)</b>								
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	384	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	628	NA	NA

SUMMARY OF VOC CONTAMINATES DETECTED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

**NOTES:**

<sup>(1)</sup> Enforcement Standard from NR140, January 2020.

<sup>(2)</sup> Preventive Action Limit from NR140, January 2020.

<sup>(3)</sup> Sample Collected by the WDNR.

<sup>(4)</sup> Sample Collected by the Property Owner.

DUP - Field duplicate sample

NL - ES or PAL not listed in NR140.

NA - Not analyzed.

J - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

Bold indicates a PAL exceedance.

Bold and underlining indicates an ES exceedance.

Table 2  
SUMMARY OF CONTAMINATES (Except PFAS) ANALYZED IN POTABLE WELLS  
(Table 2 provided on CD copy of report)



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3114 Hecker Rd				3121 Hecker Rd				
				10/22/13 Outside Spigot	11/8/13 Outside Spigot	5/28/14 Outside Spigot	6/4/20 Outside Spigot	10/22/13 Basement	11/7/13 Basement	5/28/14 Basement	10/14/15 Basement	6/10/20 Basement
<b>Polycarbonated Biphenyls (PCBs):</b>												
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>												
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>												
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>												
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>												
Conductivity	uS/cm	NL	NL	617	443	502	NA	877	635	689	785	NA
Dissolved Oxygen	ppm	NL	NL	4.11	150.31	1.3	NA	4.22	8.42	2.2	2.34	NA
ORP	mV	NL	NL	20.2	90.5	70	NA	90.1	95.7	38	-65.8	NA
pH	SU	NL	NL	7.84	8.22	7.85	NA	6.01	7.55	7.55	7.37	NA
Temperature	deg C	NL	NL	10.54	10.09	10.5	NA	9.72	10.25	10.4	11.73	NA





SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3303 Hecker Rd															
				Original Potable Well								Replacement Potable Well							
				10/23/13 Basement	11/7/13 Basement	6/3/14 Basement	06/03/14 (DUP) Basement	11/17/14 Basement	2/23/15 Basement	10/13/15 Basement	3/30/16 Basement	8/8/16 Basement	9/26/16 Basement	10/24/16 Basement	10/24/16 Basement-Vial 2	10/24/16 Basement-Vial 3	11/8/16 Basement	6/4/20 Basement	
<b>Polycarbonated Biphenyls (PCBs):</b>																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1374	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.9	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2003	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																			
Conductivity	uS/cm	NL	NL	585	538	538	538	587	618	531	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	4.22	2.41	2.41	2.41	6.84	7.1	6.69	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	62	76.4	76.4	76.4	9.2	-131.9	-58.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	8.13	7.32	7.32	7.32	7.85	8.04	7.43	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	9.69	10.31	10.31	10.31	8.83	7.31	11.19	NA	NA	NA	NA	NA	NA	NA	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3320 Hecker Rd						
				10/22/13 Outside Spigot	11/7/13 Outside Spigot	5/28/14 Outside Spigot	3/30/16 Outside Spigot	10/25/17 Outside Spigot	11/20/18 Outside Spigot	10/22/19 Outside Spigot
<b>Polycarbonated Biphenyls (PCBs):</b>										
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>										
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>										
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>										
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>										
Conductivity	uS/cm	NL	NL	598	455	477	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	4.03	6.51	0.89	NA	NA	NA	NA
ORP	mV	NL	NL	56	86.7	50	NA	NA	NA	NA
pH	SU	NL	NL	7.66	7.99	7.78	NA	NA	NA	NA
Temperature	deg C	NL	NL	10.41	9.78	11	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES, PAL, and 20 sampling locations (10/23/13 to 11/17/20) at 3327 Hecker Rd. Rows include various Volatile Organic Compounds (VOCs) such as 1,1,1,2-Tetrachloroethane, 1,1,2-Trichloroethane, etc., with values in ug/l or mg/l.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3327 Hecker Rd																	
				10/23/13 Outside Spigot	11/7/13 Outside Spigot	5/28/14 Outside Spigot	8/25/14 Outside Spigot	11/10/14 Outside Spigot	2/23/15 Kitchen Sink	10/14/15 Outside Spigot	3/31/16 Kitchen Sink	10/5/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	05/21/18 (DUP) Outside Spigot	11/20/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	10/21/19 (DUP) Outside Spigot	6/3/20 Outside Spigot
<b>Polycarbonated Biphenyls (PCBs):</b>																					
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																					
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																					
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																					
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																					
Conductivity	uS/cm	NL	NL	620	478	528	603	596	614	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	3.22	6.69	1.11	1.89	1.23	4.15	4.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	53.7	93.9	71	146	-14.5	-144.2	16.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	8.38	7.82	7.81	7.72	8.04	8.13	7.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	10.96	8.62	10.2	12.6	10.35	6.16	11.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES1, PAL2, and 20 sampling dates from 10/24/13 to 11/18/20. Rows list various VOCs and other contaminants with their respective concentrations and detection limits.

TABLE 2  
SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3461(3417) Hecker Rd																
				10/24/13 Inside Sink	11/12/13 Inside Sink	5/30/14 Inside Sink	8/26/14 Inside Sink	11/10/14 Inside Sink	2/24/15 Inside Sink	10/13/15 Inside Sink	3/30/16 Inside Sink	03/30/16 (DUP) Inside Sink	10/06/16 (DUP) Inside Sink	5/31/17 Inside Sink	10/25/17 Inside Sink	5/21/18 Inside Sink	11/20/18 Inside Sink	6/27/19 Inside Sink	10/22/19 Inside Sink	6/3/20 Inside Sink
<b>Polycarbonated Biphenyls (PCBs):</b>																				
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																				
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																				
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																				
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																				
Conductivity	uS/cm	NL	NL	723	554	562	721	733	771	748	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	4.73	17.93	1.53	0.95	2.47	4.12	3.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	69	91.7	146	237	-112.9	-164.9	-91.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.55	7.27	7.45	7.89	7.81	7.83	7.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	10.5	9.43	11.9	14.1	10.72	7.91	8.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA





SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3515 Hecker Rd											
				Original Potable Well						Replacement Potable Well					
				10/22/13 Outside Spigot	11/7/13 Inside Kitchen	11/7/13 Inside Kitchen	11/22/13 Outside Spigot	5/28/14 Outside Spigot	8/28/14 Outside Spigot	9/29/14 Outside Spigot	11/4/14 Outside Spigot	2/23/15 Pressure Tank	10/14/15 Pressure Tank	10/5/16 Pressure Tank	6/4/20 Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>															
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	< 0.021	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	< 0.014	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	< 0.018	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	< 0.015	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>															
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	1504	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.22	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>															
Arsenic	ug/l	10	1	NA	NA	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	150	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	< 0.54	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	0.34	J	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	0.061	J	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	< 0.31	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>															
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	2156	NA	NA
<b>Field Screening Measurements:</b>															
Conductivity	uS/cm	NL	NL	775	616	634	NA	694	783	NA	NA	2219	2127	NA	NA
Dissolved Oxygen	ppm	NL	NL	3.81	5.46	5.75	NA	2.13	1.73	NA	NA	5.19	1.85	NA	NA
ORP	mV	NL	NL	20.1	91.8	74.8	NA	92	231	NA	NA	-154.6	-51	NA	NA
pH	SU	NL	NL	8.02	7.44	7.77	NA	7.75	7.97	NA	NA	7.81	7.16	NA	NA
Temperature	deg C	NL	NL	9.56	10.48	10.1	NA	10.6	11.7	NA	NA	7.19	11.73	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3518 Hecker Rd													
				Original Potable Well						Replacement Potable Well							
				10/23/13	11/7/13	11/7/13	3/11/14	03/11/14 (DUP)	3/31/14	4/22/14	05/29/14 (DUP)	8/25/14	11/10/14	2/23/15	10/14/15	10/6/16	6/4/20
				Outside Spigot	Inside Kitchen	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>																	
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																	
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1448	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.01	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2064	NA	NA
<b>Field Screening Measurements:</b>																	
Conductivity	uS/cm	NL	NL	744	554	554	NA	NA	NA	NA	1571	2080	1942	1948	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	3.21	3.85	3.32	NA	NA	NA	NA	3.87	1.22	1.93	4.83	NA	NA	NA
ORP	mV	NL	NL	74.1	93.1	92	NA	NA	NA	NA	-190	178	-109.4	-123.8	NA	NA	NA
pH	SU	NL	NL	6.16	7.4	7.48	NA	NA	NA	NA	7.37	7.9	7.74	8	NA	NA	NA
Temperature	deg C	NL	NL	9.89	10.58	9.36	NA	NA	NA	NA	11.2	12.5	10.11	7.33	NA	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3609 Hecker Rd															
				Original Potable Well									Replacement Potable Well						
				10/22/13 Outside Spigot	11/7/13 Inside Kitchen	11/7/13 Inside Kitchen	11/22/13 Outside Spigot	5/28/14 Outside Spigot	05/28/14 (DUP) Outside Spigot	7/11/14 Pressure Tank	8/25/14 Pressure Tank	08/25/14 (DUP) Pressure Tank	9/29/14 Pressure Tank	11/4/14 Pressure Tank	2/24/15 Pressure Tank	10/13/15 Pressure Tank	10/5/16 Pressure Tank	6/4/20 Pressure Tank	
<b>Polycarbonated Biphenyls (PCBs):</b>																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	< 0.021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	< 0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	< 0.018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	< 0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1591	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.08	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	0.32 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	< 0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	0.56 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	< 0.049	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	< 0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2264	NA	NA
<b>Field Screening Measurements:</b>																			
Conductivity	uS/cm	NL	NL	754	614	558	NA	634	634	983	675	675	NA	2248	2203	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	4.02	4.14	3.9	NA	1.43	1.43	2.11	2.79	2.79	NA	3.42	7.78	NA	NA	NA	NA
ORP	mV	NL	NL	73	91.6	95.4	NA	60	60	131	199	199	NA	-141.9	-118.4	NA	NA	NA	NA
pH	SU	NL	NL	7.56	7.42	7.28	NA	7.5	7.5	7.91	7.7	7.7	NA	7.77	7.72	NA	NA	NA	NA
Temperature	deg C	NL	NL	10.53	12.84	9.99	NA	11.1	11.1	15.2	12.4	12.4	NA	10.69	7.01	NA	NA	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3625 Hecker Rd						3627 Hecker Rd				
				10/22/13 Outside Spigot	11/7/13 Outside Spigot	5/28/14 Outside Spigot	10/5/16 Outside Spigot	10/05/16 (DUP) Outside Spigot	10/30/19 Outside Spigot	6/4/20 Outside Spigot	10/23/13 Outside Spigot	11/7/13 Outside Spigot	5/29/14 Outside Spigot	5/30/17 Outside Spigot
<b>Polycarbonated Biphenyls (PCBs):</b>														
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>														
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>														
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>														
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>														
Conductivity	uS/cm	NL	NL	782	552	NA	NA	NA	NA	NA	707	531	576	NA
Dissolved Oxygen	ppm	NL	NL	4.54	5.31	NA	NA	NA	NA	NA	4.53	4.69	2.53	NA
ORP	mV	NL	NL	68.4	85.9	NA	NA	NA	NA	NA	45.1	91.3	137	NA
pH	SU	NL	NL	7.38	7.77	NA	NA	NA	NA	NA	7.98	7.75	7.18	NA
Temperature	deg C	NL	NL	11.04	10.92	NA	NA	NA	NA	NA	10.13	9.63	11.5	NA





SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3702 Hecker Rd																
				10/22/13 Outside Spigot	11/12/13 Outside Spigot	6/3/14 Outside Spigot	8/25/14 Outside Spigot	11/13/14 Outside Spigot	10/14/15 Outside Spigot	10/14/15 (DUP) Outside Spigot	3/31/16 Pressure Tank	10/11/16 Pressure Tank	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	11/20/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	6/4/20 Outside Spigot	11/17/20 Outside Spigot
<b>Polycarbonated Biphenyls (PCBs):</b>																				
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Metals:</b>																				
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Dissolved Metals:</b>																				
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Dissolved Solids:</b>																				
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Field Screening Measurements:</b>																				
Conductivity	uS/cm	NL	NL	757	522	552	657	657	635	635	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Oxygen	ppm	NL	NL	4.73	8.16	4.6	3.77	3.77	6.25	6.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ORP	mV	NL	NL	52.9	100.4	158	245	245	-91.9	-91.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	
pH	SU	NL	NL	7.83	8.28	7.62	7.87	7.87	7.59	7.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Temperature	deg C	NL	NL	9.82	10.58	14	14.1	14.1	12.51	12.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	















SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES, PAL, and monitoring locations: 4752 Silver Creek Rd (12/5/13 Kitchen Sink, 6/2/14 Kitchen Sink), 4808 Silver Creek Rd (12/5/13 Pump Spigot, 5/30/14 Pump Spigot), 5202 Silver Creek Rd (1/9/08 Hose Bib, 12/5/13 Inside Barn), 2706 CTH CR (8/26/14 Outside Spigot, 10/5/16 Outside Spigot), 2716 CTH CR (9/8/14 Pressure Tank, 11/18/14 Pressure Tank, 10/13/15 Pressure Tank, 11/20/18 Pressure Tank). Rows list various contaminants like Volatile Organic Compounds, Benzene, Chlorobenzene, etc.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	4752 Silver Creek Rd		4808 Silver Creek Rd		5202 Silver Creek Rd		2706 CTH CR		2716 CTH CR			
				12/5/13 Kitchen Sink	6/2/14 Kitchen Sink	12/5/13 Pump Spigot	5/30/14 Pump Spigot	1/9/08 Hose Bib	12/5/13 Inside Barn	8/26/14 Outside Spigot	10/5/16 Outside Spigot	9/8/14 Pressure Tank	11/18/14 Pressure Tank	10/13/15 Pressure Tank	11/20/18 Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>															
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>															
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>															
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>															
Conductivity	uS/cm	NL	NL	535	530	588	538	NA	609	540	NA	658	374	409	NA
Dissolved Oxygen	ppm	NL	NL	5.22	1.21	7.21	1.58	NA	5.32	1.76	NA	2.11	7.32	5.22	NA
ORP	mV	NL	NL	69.9	138	83.4	137	NA	81.1	227	NA	131	20.6	-91	NA
pH	SU	NL	NL	7.39	7.64	6.54	7.69	NA	8.72	7.59	NA	7.59	8.61	7.87	NA
Temperature	deg C	NL	NL	12.19	12.1	8.93	11.4	NA	7.5	14.2	NA	12.83	8.45	11.9	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES1, PAL2, and various sampling locations (Original Potable Well, Non-Potable Well, Original Potable Well) with dates ranging from 8/25/14 to 10/14/15. Includes numerous chemical compounds like VOCs, chlorinated hydrocarbons, and hydrocarbons.





SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	2832&2904 CTH CR						2911 CTH CR						
				2/4/14 Kitchen Sink	6/3/14 Kitchen Sink	3/30/16 Kitchen Sink	10/27/17 Kitchen Sink	10/11/18 Kitchen Sink	10/22/19 Kitchen Sink	5/29/14 Pressure Tank	10/7/16 Pressure Tank	10/27/17 Pressure Tank	10/27/17 (DUP) Pressure Tank	10/11/18 Pressure Tank	10/21/19 Pressure Tank	11/18/20 Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>																
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																
Conductivity	uS/cm	NL	NL	411	588	NA	NA	NA	NA	727	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	2.35	NA	NA	NA	NA	2.98	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	95.2	167	NA	NA	NA	NA	115	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.32	7.6	NA	NA	NA	NA	7.19	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	6.61	14.5	NA	NA	NA	NA	11.7	NA	NA	NA	NA	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	2916 CTH CR								2917 CTH CR				
				Original Potable Well								Original Potable Well (City Water Provided Dec 2016)				
				2/4/14 Pressure Tank	5/28/14 Pressure Tank	8/25/14 Pressure Tank	11/10/14 Pressure Tank	11/25/14 Pressure Tank	3/11/15 Pressure Tank	03/11/15 (DUP) Pressure Tank	10/13/15 Pressure Tank	2/4/14 Kitchen Sink	5/30/14 Kitchen Sink	10/13/15 Spigot	10/27/15 Spigot	10/27/15 (DUP) Spigot
<b>Polycarbonated Biphenyls (PCBs):</b>																
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																
Conductivity	uS/cm	NL	NL	396	1329	NA	601	NA	NA	NA	614	962	1709	1134	NA	NA
Dissolved Oxygen	ppm	NL	NL	5.32	1.5	1.73	1.64	NA	NA	NA	4.4	NA	1.22	1.49	NA	NA
ORP	mV	NL	NL	110	121	138	-85.3	NA	NA	NA	-104.5	113.2	134	-135.9	NA	NA
pH	SU	NL	NL	7.35	12.6	7.53	7.91	NA	NA	NA	7.58	7.32	7.82	7.39	NA	NA
Temperature	deg C	NL	NL	9.6	12.6	11.5	10.5	NA	NA	NA	11.98	9.01	11.9	12.32	NA	NA





SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3023 CTH CR									
				Original Potable Well				Replacement Potable Well					
				2/4/14 Outside Spigot	02/04/14 (DUP) Outside Spigot	6/2/14 Outside Spigot	8/25/14 Outside Spigot	10/8/14 Outside Spigot	11/4/14 Outside Spigot	2/24/15 Outside Spigot	10/13/15 Outside Spigot	10/5/16 Outside Spigot	
<b>Polycarbonated Biphenyls (PCBs):</b>													
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>													
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	1545	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	5.17	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>													
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>													
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	2164	NA	NA
<b>Field Screening Measurements:</b>													
Conductivity	uS/cm	NL	NL	NA	404	562	619	NA	2352	2286	2337	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	1.5	0.87	NA	2.21	3.74	2.63	NA	NA
ORP	mV	NL	NL	NA	113.2	152	222	NA	-126.3	-112	-68.2	NA	NA
pH	SU	NL	NL	NA	7.32	7.42	7.75	NA	7.7	7.64	7.21	NA	NA
Temperature	deg C	NL	NL	NA	9.16	11.1	12.8	NA	10.3	8.17	13.01	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3120 CTH CR										
				Original Potable Well						Replacement Potable Well				
				1/3/14 Pressure Tank	2/4/14 Pressure Tank	5/28/14 Pressure Tank	05/28/14 (DUP) Pressure Tank	8/25/14 Pressure Tank	08/25/14 (DUP) Pressure Tank	10/8/14 Pressure Tank	11/4/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	10/6/16 Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>														
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>														
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	1309	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.82	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>														
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>														
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1966
<b>Field Screening Measurements:</b>														
Conductivity	uS/cm	NL	NL	566	570	616	616	649	649	NA	2177	2051	2119	NA
Dissolved Oxygen	ppm	NL	NL	5.32	5.32	4.79	4.79	1.24	1.24	NA	3.21	4.58	2.5	NA
ORP	mV	NL	NL	158.1	157.3	111	111	247	247	NA	-135.6	-112.7	-77.4	NA
pH	SU	NL	NL	7.51	7.38	7.8	7.8	7.91	7.91	NA	7.61	7.79	7.19	NA
Temperature	deg C	NL	NL	8.27	8.04	11.2	11.2	7.91	7.91	NA	10.3	7.94	12.73	NA













SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3412 CTH CR								3422 CTH CR							
				1/3/14 Pressure Tank	8/26/14 Pressure Tank	11/10/14 Pressure Tank	3/31/16 Pressure Tank	10/25/17 Pressure Tank	11/20/18 Pressure Tank	10/22/19 Pressure Tank	11/17/20 Pressure Tank	1/6/14 Pressure Tank	5/30/14 Pressure Tank	8/25/14 Pressure Tank	11/18/14 Pressure Tank	10/5/16 Pressure Tank	10/30/17 Pressure Tank	11/19/18 Pressure Tank	10/22/19 Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																			
Conductivity	uS/cm	NL	NL	909	521	512	NA	NA	NA	NA	627	605	633	653	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	5.52	1.25	2.82	NA	NA	NA	NA	5.32	4.07	2.53	7.38	NA	NA	NA	NA	NA
ORP	mV	NL	NL	155	238	-51.5	NA	NA	NA	NA	142	1.32	246	-84.2	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.02	7.98	7.95	NA	NA	NA	NA	7.13	7.62	8.07	8	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	8.99	13.6	10.65	NA	NA	NA	NA	8.81	12.3	14.2	10.56	NA	NA	NA	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3504 CTH CR																
				Original Potable Well																
				12/5/13 Outside Spigot	12/05/13 (DUP) Outside Spigot	1/6/14 Basement	01/06/14 (DUP) Basement	2/5/14 Basement	5/30/14 Basement	05/30/14 (DUP) Basement	8/25/14 Basement	08/25/14 (DUP) Basement	11/18/14 Basement	11/18/14 (DUP) Basement	2/23/15 Basement	10/14/15 Basement	10/20/15	3/31/16 Basement	03/31/16 (DUP) Basement	10/11/16 Basement
<b>Polycarbonated Biphenyls (PCBs):</b>																				
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Metals:</b>																				
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	413	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.27	NA	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Dissolved Metals:</b>																				
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Dissolved Solids:</b>																				
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	698	NA	
<b>Field Screening Measurements:</b>																				
Conductivity	uS/cm	NL	NL	633	NA	636	636	503	586	586	699	699	687	687	715	709	NA	NA	NA	
Dissolved Oxygen	ppm	NL	NL	4.58	NA	7.7	7.7	5.06	2.3	2.3	2.42	2.42	5.33	5.33	4.71	4.46	NA	NA	NA	
ORP	mV	NL	NL	75.3	NA	124.4	124.4	38.2	144	144	242	242	-100.7	-100.7	-122.8	-109.5	NA	NA	NA	
pH	SU	NL	NL	8.15	NA	7.53	7.53	7.13	7.39	7.39	7.75	7.75	8.05	8.05	7.92	7.5	NA	NA	NA	
Temperature	deg C	NL	NL	12.49	NA	9.07	9.07	11.49	12.1	12.1	13.8	13.8	9.79	9.79	8.25	12.19	NA	NA	NA	



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3504 CTH CR			3523 CTH CR						3533 CTH CR							
				Replacement Potable Well			1/3/14 Basement	6/3/14 Basement	10/14/15 Basement	10/25/17 Basement	10/10/18 Basement	10/21/19 Basement	1/6/14 Basement	6/3/14 Basement	3/30/16 Basement	10/27/17 Basement	10/11/18 Basement	10/21/19 Basement	6/10/20 Basement	11/18/20 Basement
				10/24/16 Basement	11/8/16 Basement	2/23/17 Basement														
<b>Polycarbonated Biphenyls (PCBs):</b>																				
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Metals:</b>																				
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	1380	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	12.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Dissolved Metals:</b>																				
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Dissolved Solids:</b>																				
Total Dissolved Solids	mg/L	NL	NL	NA	NA	2330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Field Screening Measurements:</b>																				
Conductivity	uS/cm	NL	NL	NA	NA	NA	506	506	567	NA	NA	NA	739	885	NA	NA	NA	NA	NA	
Dissolved Oxygen	ppm	NL	NL	NA	NA	NA	2.96	2.96	4.69	NA	NA	NA	5.91	1.85	NA	NA	NA	NA	NA	
ORP	mV	NL	NL	NA	NA	NA	187	187	-101.9	NA	NA	NA	157.2	138	NA	NA	NA	NA	NA	
pH	SU	NL	NL	NA	NA	NA	7.93	7.93	7.5	NA	NA	NA	7.49	6.84	NA	NA	NA	NA	NA	
Temperature	deg C	NL	NL	NA	NA	NA	11.71	11.71	11.29	NA	NA	NA	9.92	12.5	NA	NA	NA	NA	NA	

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES1, PAL2, and detection data for 3611 CTH CR and 3618 CTH CR across various sampling dates from 5/30/14 to 5/30/17.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3611 CTH CR								3618 CTH CR							
				5/30/14 Outside Spigot	10/5/16 Outside Spigot	10/25/17 Outside Spigot	10/10/18 Outside Spigot	10/22/19 Outside Spigot	10/22/19 (DUP) Outside Spigot	11/18/20 Outside Spigot	1/3/14 Kitchen Sink	5/29/14 Kitchen Sink	8/25/14 Kitchen Sink	11/10/14 Kitchen Sink	2/23/15 Kitchen Sink	10/14/15 Pressure Tank	3/30/16 Kitchen Sink	10/6/16 Kitchen Sink	5/30/17 Kitchen Sink
<b>Polycarbonated Biphenyls (PCBs):</b>																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																			
Conductivity	uS/cm	NL	NL	931	NA	NA	NA	NA	NA	NA	543	520	658	674	674	649	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	3.95	NA	NA	NA	NA	NA	NA	5.32	2.24	0.8	1.44	1.44	1.49	NA	NA	NA
ORP	mV	NL	NL	166	NA	NA	NA	NA	NA	NA	147.6	136	238	-102.5	-102.5	-14.7	NA	NA	NA
pH	SU	NL	NL	6.98	NA	NA	NA	NA	NA	NA	7.02	7.8	7.87	7.95	7.95	7.79	NA	NA	NA
Temperature	deg C	NL	NL	10.3	NA	NA	NA	NA	NA	NA	9.02	7.8	18.3	11.33	11.33	16.22	NA	NA	NA





SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3618 CTH CR						3626 CTH CR					
				10/25/17 Kitchen Sink	5/21/18 Kitchen Sink	10/10/18 Kitchen Sink	6/27/19 Kitchen Sink	10/21/19 Kitchen Sink	11/17/20 Kitchen Sink	12/5/13 Bathroom	5/30/14 Bathroom	10/14/15 Bathroom	10/27/17 Bathroom	10/11/18 Bathroom	10/30/19 Bathroom
<b>Polycarbonated Biphenyls (PCBs):</b>															
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>															
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>															
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>															
Conductivity	uS/cm	NL	NL	NA	NA	NA	NA	NA	NA	519	500	578	578	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	NA	NA	NA	NA	5.73	1.83	2.52	2.52	NA	NA
ORP	mV	NL	NL	NA	NA	NA	NA	NA	NA	90	143	-110.8	-110.8	NA	NA
pH	SU	NL	NL	NA	NA	NA	NA	NA	NA	842	7.58	7.86	7.86	NA	NA
Temperature	deg C	NL	NL	NA	NA	NA	NA	NA	NA	8.69	11.98	11.99	11.99	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES1, PAL2, and 18 sampling locations (12/5/13 Basement, 5/29/14 Basement, 3/30/16 Basement, 10/25/17 Basement, 10/10/18 Basement, 10/21/19 Basement, 11/18/20 Basement, 12/5/13 Pressure Tank, 5/28/14 Pressure Tank, 5/30/17 Outside Spigot, 05/30/17 (DUP) Outside Spigot, 6/10/20 Outside Spigot, 12/12/13 Spigot in Barn, 5/28/14 Spigot in Barn, 10/6/16 Pressure Tank, 10/22/19 Pressure Tank, 6/4/20 Pressure Tank). Rows include various VOCs and other contaminants like Benzene, Chlorobenzene, etc.







SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES1, PAL2, and detection dates (5/29/14 to 03/05/18) under categories 'Original Potable Well' and 'Replacement Potable Well'. Rows list various chemical compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc., with associated numerical values and detection status (e.g., < 0.33, NA, 0.83 J).

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns: Analyte, Units, ES1, PAL2, and 16 sampling dates/locations (5/29/14 to 03/05/18). Rows include Polycarbonated Biphenyls (PCBs), Total Metals, and Dissolved Metals.





SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	4010 Thunder Ridge Rd											
				Original Potable Well						Replacement Potable Well					
				5/28/14 Outside Spigot	8/26/14 Outside Spigot	2/24/15 Pressure Tank	10/20/15 Outside Spigot	3/31/16 Outside Spigot	10/7/16 Outside Spigot	10/24/16 Outside Spigot	5/31/17 Outside Spigot	5/31/17 Outside Spigot	6/22/17 Pressure Tank	8/17/17 Pressure Tank	03/05/18 Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>															
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>															
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	262
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.4
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	558
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.9
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.3
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	1588	1576	NA	1732	1888	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	9.77	3.96	NA	3.51	4.82	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.9
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	113
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.8
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.9
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.2
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.52
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4890
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68.4
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28200
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.2
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.2
<b>Dissolved Metals:</b>															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	8.72	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>															
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	2658	2652	NA	2702	2630	
<b>Field Screening Measurements:</b>															
Conductivity	uS/cm	NL	NL	687	742	746	0.762	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	0.99	2.35	6.62	4.18	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	118	245	-158	-99.1	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.97	7.85	8.15	7.71	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	14.2	13.3	8.83	12.79	NA	NA	NA	NA	NA	NA	NA	NA





SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Table with 19 columns: Analyte, Units, ES¹, PAL², 8/26/14 Outside Spigot, 11/17/14 Outside Spigot, 3/11/15 Pressure Tank, 10/14/15 Outside Spigot, 3/30/16 Outside Spigot, 11/8/16 Outside Spigot, 5/30/17 Outside Spigot, 5/30/17 Outside Spigot, 5/30/17 Outside Spigot, 10/25/17 Outside Spigot, 5/21/18 Outside Spigot, 10/10/18 Outside Spigot, 6/27/19 Outside Spigot, 10/21/19 Outside Spigot, 6/3/20 Outside Spigot, 11/17/20 Outside Spigot. Includes a sub-header '4101 Thunder Ridge Rd' and a section for 'Volatile Organic Compounds (VOCs)'.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	4101 Thunder Ridge Rd															
				8/26/14 Outside Spigot	11/17/14 Outside Spigot	3/11/15 Pressure Tank	10/14/15 Outside Spigot	3/30/16 Outside Spigot	11/8/16 Outside Spigot	5/30/17 Outside Spigot	5/30/17 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	10/10/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	6/3/20 Outside Spigot	11/17/20 Outside Spigot
<b>Polycarbonated Biphenyls (PCBs):</b>																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																			
Conductivity	uS/cm	NL	NL	836	777	NA	846	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	1.4	1.24	NA	3.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	236	-33.7	NA	-66.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.75	7.7	NA	6.91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	15.4	9.74	NA	10.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	4111 Thunder Ridge Rd														
				8/25/14 Outside Spigot	11/17/14 Outside Spigot	2/23/15 Outside Spigot	10/13/15 Outside Spigot	3/30/16 Pressure Tank	10/10/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	10/25/17 (DUP) Outside Spigot	5/21/18 Pressure Tank	6/5/18 Pressure Tank	10/11/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank	11/17/20 Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>																		
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																		
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.86	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																		
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	616	NA
<b>Field Screening Measurements:</b>																		
Conductivity	uS/cm	NL	NL	809	786	818	827	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	0.97	5.9	4.31	1.68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	236	-41.4	-155.3	-120.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.65	7.99	7.98	7.68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	12.8	8.88	7.83	13.73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA





SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	4127 Thunder Ridge Rd								3617(3621) Viebahn St					
												(Well Abandoned, City Water Provided)					
				12/5/13 Outside Spigot	5/29/14 Outside Spigot	3/30/16 Outside Spigot	6/27/19 Outside Spigot	10/30/19 Outside Spigot	6/3/20 Outside Spigot	11/18/20 Outside Spigot	11/7/14 Pressure Tank	11/19/14 Pressure Tank	2/24/15 Pressure Tank	02/24/15 (DUP) Pressure Tank	10/13/15 Pressure Tank	3/30/16 Pressure Tank	
<b>Polycarbonated Biphenyls (PCBs):</b>																	
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Metals:</b>																	
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Dissolved Metals:</b>																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Dissolved Solids:</b>																	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Field Screening Measurements:</b>																	
Conductivity	uS/cm	NL	NL	1033	1046	NA	NA	NA	NA	NA	646	590	511	511	663	NA	
Dissolved Oxygen	ppm	NL	NL	5.21	1.33	NA	NA	NA	NA	NA	3.7	1.93	3.89	3.89	1.67	NA	
ORP	mV	NL	NL	95	132	NA	NA	NA	NA	NA	-29.2	-147.6	-185.7	-185.7	-123.4	NA	
pH	SU	NL	NL	8.24	7.32	NA	NA	NA	NA	NA	8.12	7.99	8.32	8.32	7.39	NA	
Temperature	deg C	NL	NL	8.53	11.5	NA	NA	NA	NA	NA	10.44	9.95	9	9	12.06	NA	

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES, PAL, and 15 detection points for wells at 3701 Viebahn St and 3815 Viebahn St. Rows include various organic compounds like Tetrachloroethane, Dichloroethene, Benzene, etc.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3701 Viebahn St						3815 Viebahn St					
				Original Potable Well (City Water Provided Dec 2016)						Original Potable Well (City Water Provided Dec 2016)					
				10/29/14 Pressure Tank	11/7/14 Pressure Tank	11/07/14 (DUP) Pressure Tank	2/23/15 Pressure Tank	02/23/15 (DUP) Pressure Tank	10/14/15 Pressure Tank	10/14/15 (DUP) Pressure Tank	11/7/14 Pressure Tank	11/19/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	10/13/15 (DUP) Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>															
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>															
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>															
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>															
Conductivity	uS/cm	NL	NL	630	658	658	618	618	624	624	644	561	664	645	645
Dissolved Oxygen	ppm	NL	NL	6.51	4.68	4.68	7.1	7.1	3.3	3.3	2.54	5.32	3.51	5.54	5.54
ORP	mV	NL	NL	-58.3	13.3	13.3	-131.9	-131.9	-90.3	-90.3	21.5	80.3	-113.7	-66.5	-66.5
pH	SU	NL	NL	8.38	7.76	7.76	8.04	8.04	7.32	7.32	8.01	7.63	7.68	7.43	7.43
Temperature	deg C	NL	NL	10.13	9.68	9.68	7.31	7.31	10.57	10.57	10.05	8.58	7.84	11.71	11.71



**SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN**

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3817 Viebahn St													
				10/29/14 Outside Spigot	11/7/14 Outside Spigot	2/24/15 Pressure Tank	10/20/15 Outside Spigot	3/31/16 Outside Spigot	10/6/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	10/11/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	6/4/20 Outside Spigot	11/17/20 Outside Spigot
<b>Polycarbonated Biphenyls (PCBs):</b>																	
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																	
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																	
Conductivity	uS/cm	NL	NL	631	658	746	649	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	3.22	3.37	2.72	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	-95.3	14	-158.6	-42.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.83	8.31	8.13	8.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	10.85	10.42	9.47	13.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES1, PAL2, and monitoring locations (3825 Viebahn St, 3825 Viebahn St, 4025 Viebahn St, 4101 Viebahn St) and dates (10/29/14, 11/7/14, 2/23/15, 02/23/15 (DUP), 10/14/15, 3/31/16, 10/6/16, 10/25/17, 10/10/18, 10/21/19, 11/17/20). Rows include Volatile Organic Compounds (VOCs) like 1,1,1-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1,2-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethane, 1,2,3-Trichlorobenzene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane (EDB), 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Butanone (MEK), 2-Chlorotoluene, 4-Chlorotoluene, 4-Methyl-2-pentanone (MIBK), Acetone, Benzene, Bromobenzene, Bromochloromethane, Bromodichloromethane, Bromoform, Bromomethane, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethane, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Ethylbenzene, Hexachloro-1,3-butadiene, Hexane, Isopropyl ether, Isopropylbenzene (Cumene), m,p-Xylenes, Methylene Chloride, Methyl-tert-butyl ether, Naphthalene, n-Butylbenzene, n-Propylbenzene, o-Xylene, p-Isopropyltoluene, sec-Butylbenzene, Styrene, tert-Butylbenzene, Tetrachloroethane, Tetrahydrofuran, Toluene, Total Trimethylbenzene, trans-1,2-Dichloroethane, trans-1,3-Dichloropropene, Trichloroethane, Trichlorofluoromethane, Vinyl chloride, Xylene (Total).











TABLE 2

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3128 Orchard Ln				3318 Orchard Ln		3420 Orchard Ln			3523 Orchard Ln		3524 Orchard Ln				
				2/4/14 Pressure Tank	6/4/14 Pressure Tank	10/14/15 Pressure Tank	11/19/18 Pressure Tank	7/11/14 Outside Spigot	10/24/16 Outside Spigot	2/4/14 Kitchen Sink	6/2/14 Kitchen Sink	10/6/16 Outside Spigot	2/4/14 Kitchen Sink	5/28/14 Kitchen Sink	2/4/14 Kitchen Sink	6/2/14 Kitchen Sink	06/02/14 (DUP) Kitchen Sink	10/13/15 Kitchen Sink	11/17/20 Kitchen Sink
<b>Polycarbonated Biphenyls (PCBs):</b>																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																			
Conductivity	uS/cm	NL	NL	603	797	843	NA	1033	NA	454	470	NA	671	579	672	672	900	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	1.97	2.26	NA	4.11	NA	6.53	1.23	NA	4.99	5.3	1.62	1.62	1.77	NA	NA
ORP	mV	NL	NL	113.2	117	-106.5	NA	123	NA	123.2	165	NA	111	117.3	159	159	-75.7	NA	NA
pH	SU	NL	NL	7.32	7.63	7.61	NA	7.52	NA	7.1	8.06	NA	7.78	7.03	7.41	7.41	7.34	NA	NA
Temperature	deg C	NL	NL	8.75	10.4	12.13	NA	13.8	NA	7.1	11.8	NA	10.6	9.29	12.1	12.1	12.28	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3911 Black Hawk Ct								
				7/8/15 Spigot	10/6/16 Pressure Tank	5/31/17 Pressure Tank	10/30/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank	6/10/20 Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>												
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>												
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>												
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>												
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>												
Conductivity	uS/cm	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3921 Black Hawk Ct															
				2/4/14 Pressure Tank	6/2/14 Pressure Tank	8/26/14 Pressure Tank	11/10/14 Pressure Tank	2/24/15 Pressure Tank	10/14/15 Pressure Tank	3/31/16 Pressure Tank	10/5/16 Pressure Tank	5/30/17 Pressure Tank	10/25/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	10/10/18 (DUP) Pressure Tank	6/27/19 Pressure Tank	10/22/19 Pressure Tank	6/10/20 Pressure Tank
<b>Polycarbonated Biphenyls (PCBs):</b>																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																			
Conductivity	uS/cm	NL	NL	468	636	762	754	810	742	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	2.83	1.34	5.53	7.64	2.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	100.3	148	206	-27.2	-160.9	-124.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.21	7.61	7.45	7.95	7.99	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	10.06	12.7	14.3	11.85	8.8	13.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



TABLE 2

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES, PAL, and various sampling locations: 3301 S 15TH ST, 2915 S 26TH St, 3719 S 26TH St, 2918 S 26TH St (Original and Replacement Potable Wells), and 3008 S 26TH St. Rows list numerous chemical compounds like Volatile Organic Compounds (VOCs), Chlorinated Hydrocarbons, and BTEX with their respective concentrations.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with 21 columns: Analyte, Units, ES1, PAL2, 3301 S 15TH ST, 2915 S 26TH St, 3719 S 26TH ST, 2918 S 26TH St (Original Potable Well, Replacement Potable Well), 3008 S 26TH St. Rows include Polycarbonated Biphenyls (PCBs), Total Metals, Dissolved Metals, Total Dissolved Solids, and Field Screening Measurements.



SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

Analyte	Units	ES <sup>1</sup>	PAL <sup>2</sup>	3203 S 26TH St	3107 Fricke Dr	3609 M&M Ln		2201 Elm Road				2408 Elm Road	2417 Elm Road	2514 Elm Road	2501 Nelson Lane	
				12/19/2017 <sup>(3)</sup> Basement Tap	12/5/13 Well Pump	12/4/2013 <sup>(3)</sup> Pressure Tank	12/16/13 Pressure Tank	12/19/2017 <sup>(3)</sup> Basement Tap	2/14/2018 <sup>(3)</sup> Basement Tap	06/27/19 <sup>(3)</sup> Basement Tap	10/22/19 Basement Tap	6/4/20 Basement Tap	11/17/20 Basement Tap	12/19/2017 <sup>(3)</sup> Basement Tap	12/19/2017 <sup>(3)</sup> Basement Tap	12/19/2017 <sup>(3)</sup> Basement Tap
<b>Polycarbonated Biphenyls (PCBs):</b>																
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Metals:</b>																
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	384	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	1.34	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Metals:</b>																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Dissolved Solids:</b>																
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	628	NA	NA	NA	NA	NA	NA
<b>Field Screening Measurements:</b>																
Conductivity	uS/cm	NL	NL	NA	561	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	5.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	NA	80.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	NA	7.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	NA	8.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN

**NOTES:**

<sup>(1)</sup> Enforcement Standard from NR140, January 2020.

<sup>(2)</sup> Preventive Action Limit from NR140, January 2020.

<sup>(3)</sup> Sample Collected by the WDNR.

<sup>(4)</sup> Sample Collected by the Property Owner.

DUP - Field duplicate sample

NL - ES or PAL not listed in NR140.

NA - Not analyzed.

J - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

Bold indicates a PAL exceedance.

Bold and underlining indicates an ES exceedance.

Table 3  
SUMMARY OF FIVE YEAR POTABLE WELL SAMPLING PLAN (UPDATED MARCH 2021)

**TABLE 3  
SUMMARY OF FIVE YEAR POTABLE WELL SAMPLING PLAN (Updated March 2021)  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN**

Well Address	Map Color Code	Date of Previous Sampling Event	2017		2018		2019		2020		2021	
			May	October	May	October	May	October	June	October	May	October
<b>Target Zone Wells (semi-annual sampling)</b>												
3817 Viebahn St	●	May 2020	+	+	+	+	+	+	+	1	1	1
3327 Hecker Rd	●	May 2020	+	+	+	+	+	+	+	1	1	1
3461(3417) Hecker Rd	●	May 2020	+	+	+	+	+	+	+	1	1	1
3702 Hecker Rd	●	May 2020	+	+	+	+	+	+	+	1	1	1
2832 (2904) CTH CR	●	Oct 2016		+		+		+	+	1	1	1
3618 CTH CR	●	May 2017	+	+	+	+	+	+	+	1	1	1
4024 CTH CR	●	May 2020						+	+	1	1	1
4027 Thunder Ridge Rd	●	May 2020	+	+	+	+	+	+	+	1	1	1
4101 Thunder Ridge Rd	●	May 2017	+	+	+	+	+	+	+	1	1	1
4111 Thunder Ridge Rd	●	May 2020	+	+	+	+	+	+	+	1	1	1
4127 Thunder Ridge Rd	●	May 2020					+	+	+	1	1	1
3911 Blackhawk Ct	●	May 2020	+	+	+	+	+	+	+	1	1	1
3921 Black Hawk Ct	●	May 2020	+	+	+	+	+	+	+	1	1	1
4159 Silver Creek Rd	●	May 2020	+	+	+	+	+	+	+	1	1	1
3027 Orchard Ln	●	May 2020	+	+	+	+	+	+	+	1	1	1
2201 Elm Street	●	May 2020					+	+	+	1	1	1
3008 South 26th Street	●	May 2020					+	+	+	1	1	1
<b>Target Zone Sentinel Wells (sample annually)</b>												
3320 Hecker Rd	●	Oct 2016		+		+		+		1		1
3825 Viebahn St	●	Oct 2016		+		+		+		1		1
2911 CTH CR	●	Oct 2016		+		+		+		1		1
3224 CTH CR	●	Oct 2016		+		+		+		1		1
3312 CTH CR	●	Oct 2016		+		+		+		1		1
3322 CTH CR	●	Oct 2016		+		+		+		1		1
3412 CTH CR	●	Oct 2016		+		+		+		1		1
3422 CTH CR	●	Oct 2016		+		+		+		1		1
3523 CTH CR	●	Oct 2016		+		+		+		1		1
3533 CTH CR	●	Oct 2016		+		+		+	+	1		1
3611 CTH CR	●	Oct 2016		+		+		+		1		1
3626(3626B) CTH CR	●	Oct 2016		+		+		+		1		1
3627 CTH CR	●	Oct 2016		+		+		+		1		1
<b>Sentinel Zone 3-Year Wells (sample every 3rd year)</b>												
3625 Hecker Rd	●	Oct 2016						+	+			Oct 2022
2717 CTH CR (4141 Viebahn St) non-potable well	●	May 2020						+	+	1		May 2023
2716 CTH CR	●	Oct 2015				+						1
3904 CTH CR	●	May 2017	+						+			
4101 CTH CR	●	Oct 2015				+						1
3128 Orchard Ln	●	Oct 2015				+						1
4212 Silver Creek Rd												
4220 Silver Creek Rd (3 Properties Share Well)	●	May 2017	+						+			
4236 Silver Creek Rd												
4314 Silver Creek Rd	●	June 2014	+						+			
<b>Sentinel Zone 5-Year Wells (sample every 5th year)</b>												
4219 Viebahn St	●	Oct 2015							+			
3121 Hecker Rd	●	Oct 2015							+			
3720 Hecker Rd	●	March 2016							+		1	
3627 Hecker Rd	●	May 2017	+									May 2022
2706 CTH CR	●	Oct 2016										1
4125 CTH CR	●	May 2017	+									May 2022
3318 Orchard Ln.	●	Oct 2016										1
3420 Orchard Ln.	●	Oct 2016										1
3524 Orchard Ln.	●	Oct 2015								1		
3710 Silver Creek Rd	●	May 2017	+									May 2022
3780 Silver Creek Rd	●	May 2017	+									May 2022
3802 Silver Creek Rd	●	May 2017	+									May 2022
3812 Silver Creek Rd	●	January 2016									1	
3902 Silver Creek Rd	●	Oct 2016										1
4004 Silver Creek Rd	●	Oct 2015								1		
4156 Silver Creek Rd	●	March 2016									1	
4315 Silver Creek Rd	●	May 2017	+									May 2022

**TABLE 3  
SUMMARY OF FIVE YEAR POTABLE WELL SAMPLING PLAN (Updated March 2021)  
FORMER TOWN OF NEWTON GRAVEL PIT  
MANITOWOC, WISCONSIN**

Well Address	Map Color Code	Date of Previous Sampling Event	2017		2018		2019		2020		2021	
			May	October	May	October	May	October	June	October	May	October
<b>Replacement Wells (sample every 5th year)</b>												
3303 Hecker Rd	●	May 2020							‡			May 2025
3515 Hecker Rd	●	May 2020							‡			May 2025
3518 Hecker Rd	●	May 2020							‡			May 2025
3609 Hecker Rd	●	May 2020							‡			May 2025
3023 CTH CR	●	Oct 2016										1
3120 CTH CR	●	Oct 2016										1
3403 CTH CR	●	Oct 2016										1
3504 CTH CR	●	Feb 2017	‡									1
4002 Thunder Ridge Rd	●	Oct 2016										1
4005 Thunder Ridge Rd	●	May 2017	‡									May 2022
4010 Thunder Ridge Rd	●	May 2017	‡									May 2022
2918 South 26th Street	●	May 2019						‡				May 2024
<b>Historically Sampled Wells</b>												
5107 Veibahn St	▲	December 2013	Wells are typically up-gradient or side gradient - no additional sampling anticipated									
2925 Fricke Rd	▲	Feb 1993										
3107 Fricke Rd	▲	December 2013										
3610 Gass Lake Rd	▲	Feb 1993										
3609 M&M Ln	▲	December 2013										
3717 M&M Ln	▲	Feb 1993										
3840 M&M Ln	▲	Feb 1993										
3114 Hecker Rd	▲	May 2020										
2881 CTH CR	▲	Well Out of Service										
4314 Silver Creek Rd	▲	June 2014										
4609 Silver Creek Rd	▲	June 2014										
4620 Silver Creek Rd (two wells)	▲	May 2014										
4752 Silver Creek Rd	▲	June 2014										
4808 Silver Creek Rd	▲	May 2014										
5202 Silver Creek Rd	▲	December 2013										
3523 Orchard Ln	▲	May 2014										
<b>Former Potable Wells Now Connected to City Water</b>												
3617(3621) Viebahn St	○	March 2016	City Water Provided - No Potable Well Sampling Required									
3701 Viebahn St	○	Oct 2015										
3815 Viebahn St	○	Oct 2015										
4025 Viebahn St	○	Oct 2015										
4101 Viebahn St	○	Oct 2015										
2716 CTH CR (4141 Viebahn St)	○	Oct 2015										
2734(2804) CTH CR	○	Oct 2015										
2916 CTH CR	○	Oct 2015										
2917 CTH CR	○	Oct 2015										
		Wells Sampled per Event	24	26	42	29	46	32	34	33	20	42

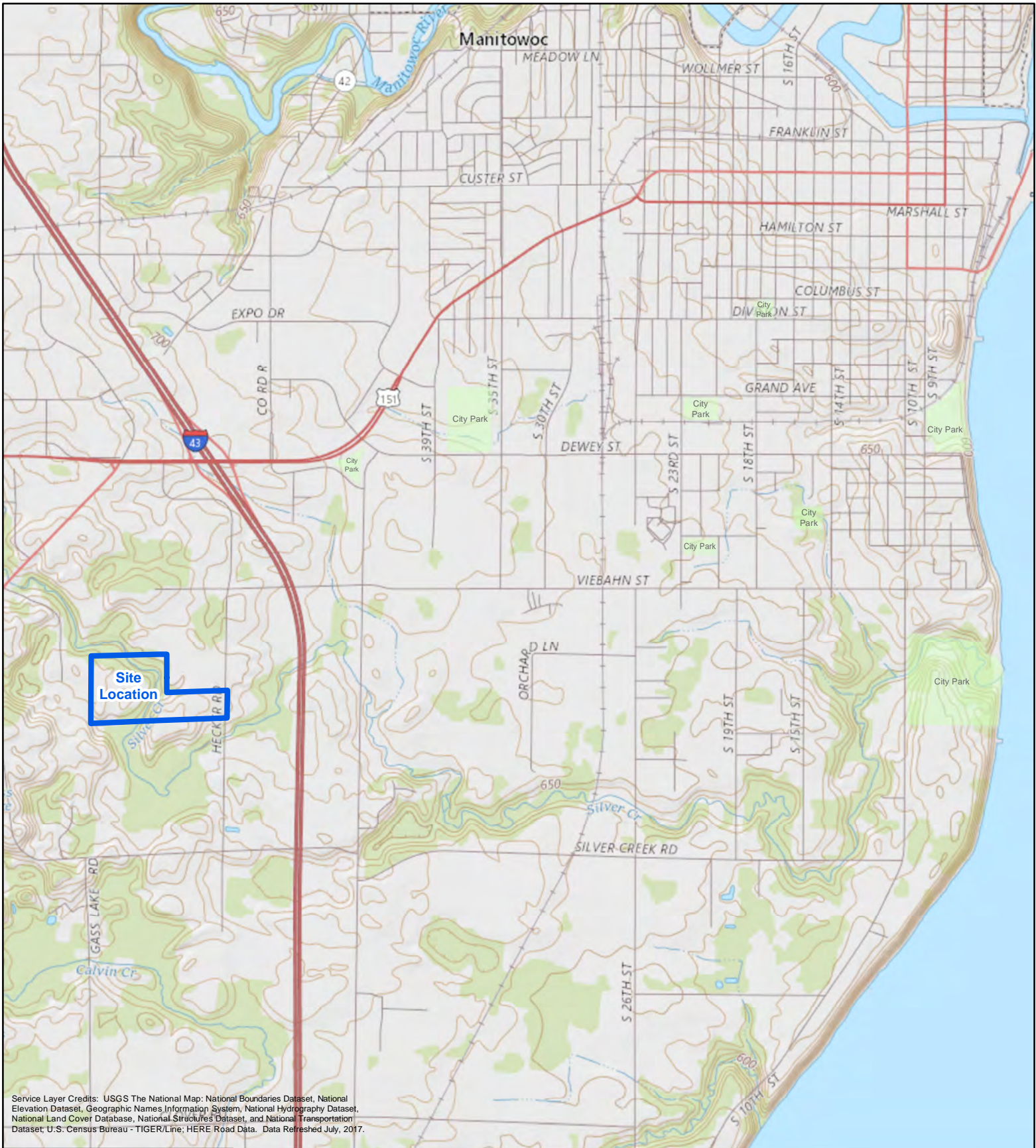
Notes:  
‡ indicates sample has been collected and the sampling event is complete



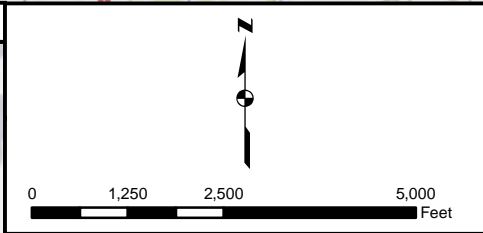
**Figures:**

Figure 1; Site Location Map

Figure 2; November 2020 VOC Potable Well Sampling Results



Service Layer Credits: USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line; HERE Road Data. Data Refreshed July, 2017.



FORMER NEWTON GRAVEL PIT

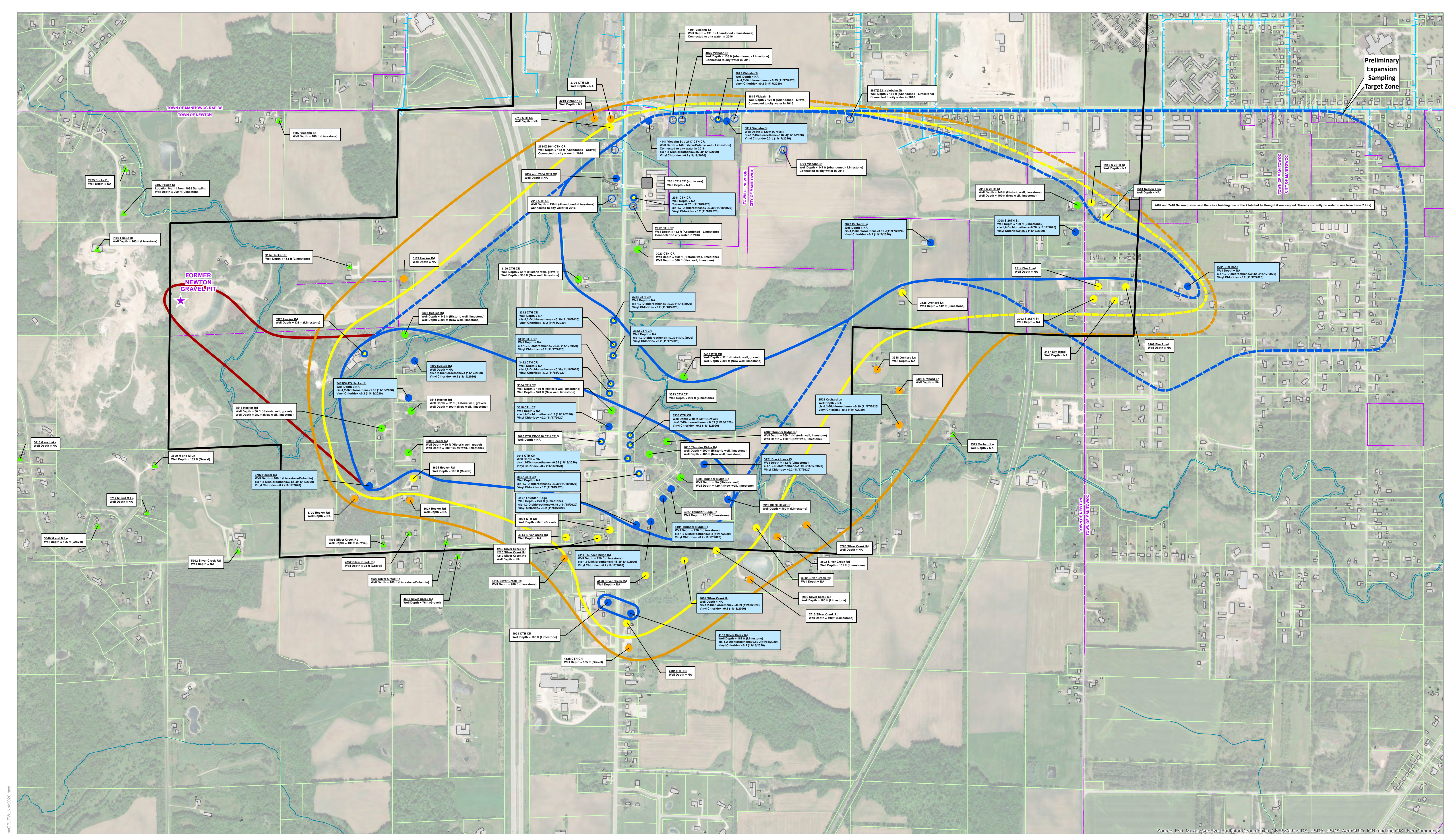
**SITE LOCATION MAP**

AECOM - Milwaukee Office  
1555 River Center Dr  
Milwaukee WI



Project No. 60135471    Drawn By: RW    Date: June 2018

**Figure 1**



Preliminary  
Expansion  
Sampling  
Target Zone

FORMER  
NEWTON  
GRAVEL PIT

Legend	
<span style="color: blue;">●</span> Within Target Zone, With Detects	<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Well Out Of Service
<span style="color: blue;">○</span> Within Target Zone, With No Detects	<span style="color: purple;">★</span> Site Location
<span style="color: blue;">○</span> Former Target Zone Well, With Detects, But Now On City Water	<span style="border: 2px solid black; width: 10px; height: 10px; display: inline-block;"></span> DNR Special Well Casing Depth Area
<span style="color: yellow;">●</span> Within Sentinel Zone - 3 Year, With No Detects	<span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Target Zone
<span style="color: orange;">●</span> Within Sentinel Zone - 5 Year, With No Detects	<span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Inferred Target Zone
<span style="color: green;">●</span> Replacement Well Within Target Zone, With No Detects	<span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Inferred 3 Year Sentinel Zone
<span style="color: green;">▲</span> Historically Sampled Wells, With No Detects	<span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Inferred 5 Year Sentinel Zone
<span style="color: purple;">★</span> Site Location	<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Municipality Boundaries
<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> DNR Special Well Casing Depth Area	<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Parcels
<span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Target Zone	<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Streams
<span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Inferred Target Zone	<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Building Footprints
<span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Inferred 3 Year Sentinel Zone	<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Current Sampling Results
<span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Inferred 5 Year Sentinel Zone	<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Utility Water Line

NOTES:  
1. Units are presented in micrograms per Liter (ug/L).

0 250 500 1,000 Feet

<b>AECOM</b> Milwaukee Office 1555 River Center Dr Milwaukee WI 	<b>FORMER NEWTON GRAVEL PIT</b> <b>NOVEMBER 2020</b> <b>VOC POTABLE WELL SAMPLING RESULTS</b>	
	Project No. 60135471	Drawn By: RW

**FIGURE 2**

**Attachment A:**  
VOC Laboratory Reports

# 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 25-Nov-20

Project Name FMR NEWTON GRAVEL PIT  
Project # 60135471

Invoice # E38811

Lab Code 5038811A  
Sample ID 3627 CTH CR  
Sample Matrix Water  
Sample Date 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811A  
**Sample ID** 3627 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		11/20/2020	CJR	1

Project Name FMR NEWTON GRAVEL PIT  
Project # 60135471

Invoice # E38811

Lab Code 5038811B  
Sample ID 3533 CTH CR  
Sample Matrix Water  
Sample Date 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811B  
**Sample ID** 3533 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/20/2020	CJR	1



**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811C  
**Sample ID** 4127 THUNDER RIDGE  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	0.49 "J"	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811C  
**Sample ID** 4127 THUNDER RIDGE  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811D  
**Sample ID** 2717 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	0.92 "J"	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811D  
**Sample ID** 2717 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	107	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811E  
**Sample ID** 3611 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811E  
**Sample ID** 3611 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	107	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	111	REC %			1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811F  
**Sample ID** 4004 SILVER CREEK RD  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811F  
**Sample ID** 4004 SILVER CREEK RD  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		11/20/2020	CJR	1



**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811G  
**Sample ID** 2911 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	0.37 "J"	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811G  
**Sample ID** 2911 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811H  
**Sample ID** 3312 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811H  
**Sample ID** 3312 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811I  
**Sample ID** 3417(3461) HECKER RD  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	1.85	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811I  
**Sample ID** 3417(3461) HECKER RD  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811J  
**Sample ID** 3422 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811J  
**Sample ID** 3422 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/20/2020	CJR	1



**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811K  
**Sample ID** 3224 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811K  
**Sample ID** 3224 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811L  
**Sample ID** 4159 SILVER CREEK  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/20/2020	CJR	1
cis-1,2-Dichloroethene	0.89 "J"	ug/l	0.39	1.2	1	8260B		11/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/20/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38811

**Lab Code** 5038811L  
**Sample ID** 4159 SILVER CREEK  
**Sample Matrix** Water  
**Sample Date** 11/18/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/20/2020	CJR	1
SUR - Toluene-d8	97	REC %				8260B		11/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %				8260B		11/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %				8260B		11/20/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %				8260B		11/20/2020	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-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**

**Required Client Information:**

Company: **AECOM**

Address: 1565 N. RiverCenter Drive, Suite 214  
Milwaukee, WI 53212, USA

Email To: dave.henderson@aecom.com

Phone: 414-944-6190 Fax:

Requested Due Date/TAT: Normal TAT

**Section B**

**Required Project Information:**

Report To: Dave Henderson

Copy To: Dave Henderson

Purchase Order No.:

Project Name: Former Newton Gravel Pit

Project Number: 60135471

**Section C**

**Invoice Information:**

Attention: Dave Henderson

Company Name: SAME

Address:

Synergy Quote Reference:

Synergy Project Manager: Mike Ricker?

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER

UST  RCRA  OTHER \_\_\_\_\_

**SITE LOCATION**

SA  IL  IN  MI  NC  
 OH  SC  WI  OTHER \_\_\_\_\_

ITEM #	Section D Required Client Information <b>SAMPLE ID</b> One Character per box (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE	SAMPLE TYPE G-GRAB C/COMP	COLLECTED		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives										Requested Ans	Filtered (Y/N)	Requested Date	Residual Chlorine (Y/N)	Synergy Project Number Lab ID.		
		MATRIX CODE	CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Methanol	Other	VOC								
✓ 1	3627 CTH CR	DW	G	11/18/2020	8:15	3							X					X								5038811 A
✓ 2	3533 CTH CR	DW	G	11/18/2020	8:45	3							X					X								B
✓ 3	4127 Thunder Ridge	DW	G	11/18/2020	9:15	3							X					X								C
✓ 4	2717 CTH CR	DW	G	11/18/2020	9:45	3							X					X								D
✓ 5	3811 CTH CR	DW	G	11/18/2020	10:15	3							X					X								E
✓ 6	4004 Silver Creek Rd	DW	G	11/18/2020	10:45	3							X					X								F
✓ 7	2911 CTH CR	DW	G	11/18/2020	11:15	3							X					X								G
✓ 8	<del>3312 CTH CR</del>	DW	G	11/18/2020	<del>12:45</del>	3							X					X								
✓ 9	<del>3312 CTH CR</del> RW 3312 CTH CR	DW	G	11/18/2020	13:45	3							X					X								H
✓ 10	3417(3461)Hecker Rd	DW	G	11/18/2020	16:45	3							X					X								I
✓ 11	3422 CTH CR	DW	G	11/18/2020	17:15	3							X					X								J
✓ 12	3224 CTH CR	DW	G	11/18/2020	17:45	3							X					X								K

**Additional Comments:**

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
<i>[Signature]</i> AECOM	11/18	1:00				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_ DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp in °C: \_\_\_\_\_ Received on Ice:  Custody Sealed Cooler:  Samples Intact:

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>	
Company: <b>AECOM</b>		Report To: Dave Henderson		Attention: Dave Henderson		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> LUST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Address: 1555 N. RiverCenter Drive, Suite 214 Milwaukee, WI 53212, USA		Copy To: Dave Henderson		Company Name: SAME		<b>SITE</b> <input type="checkbox"/> GA <input type="checkbox"/> IL <input type="checkbox"/> IN <input type="checkbox"/> MI <input type="checkbox"/> IC <b>LOCATION</b> <input type="checkbox"/> OH <input type="checkbox"/> SC <input type="checkbox"/> WI <input checked="" type="checkbox"/> OTHER _____	
Email To: dave.henderson@aecom.com		Purchase Order No.:		Synergy Quote Reference:		Filtered (Y/N)	
Phone: 414-944-6190   Fax:		Project Name: Former Newton Gravel Pit		Synergy Project Manager: Mike Ricker?		Requested Amt	
Requested Due Date/TAT: Normal TAT		Project Number: 60135471				Residual Charge (Y/N)	

ITEM #	Section D Required Client Information		Valid Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION	NOF CONTAINERS	Preservatives							Filtered (Y/N)	Requested Amt	Residual Charge (Y/N)	Synergy Project Number Lab IDL
	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Samples IDs MUST BE UNIQUE		MATRIX CODE	SAMPLE TYPE	DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	HAcOH	H <sub>2</sub> O <sub>2</sub>	Methanol				
1	2806 S. 15TH ST		DW	G	11/18/2020	14:15		3			X					X		2806	
2	4159 Silver Creek		DW	G	11/18/20	15:45		3			X					X		50388112	
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Additional Comments:

REINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i>	11/19/20	12:00 PM	<i>[Signature]</i>				Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
			<i>MS</i>	11-19	12:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER					
SIGNATURE of SAMPLER	DATE Signed (MM/DD/YY)				

# 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 25-Nov-20

Project Name FMR NEWTON GRAVEL PIT  
Project # 60135471

Invoice # E38812

Lab Code 5038812A  
Sample ID 2201 ELM RD  
Sample Matrix Water  
Sample Date 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2020	CJR	1
cis-1,2-Dichloroethene	0.42 "J"	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812A  
**Sample ID** 2201 ELM RD  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/21/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		11/21/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		11/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		11/21/2020	CJR	1



**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812B  
**Sample ID** 3027 ORCHARD LANE  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2020	CJR	1
cis-1,2-Dichloroethene	0.52 "J"	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/21/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812B  
**Sample ID** 3027 ORCHARD LANE  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		11/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/21/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		11/21/2020	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812C  
**Sample ID** 4101 THUNDER RIDGE  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2020	CJR	1
cis-1,2-Dichloroethene	1.2	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/21/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812C  
**Sample ID** 4101 THUNDER RIDGE  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		11/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		11/21/2020	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		11/21/2020	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812D  
**Sample ID** 3412 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/21/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812D  
**Sample ID** 3412 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/21/2020	CJR	1
SUR - Dibromofluoromethane	111	REC %			1	8260B		11/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		11/21/2020	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812E  
**Sample ID** 3008 S 26TH ST  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2020	CJR	1
cis-1,2-Dichloroethene	0.78 "J"	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/21/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812E  
**Sample ID** 3008 S 26TH ST  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2020	CJR	1
Vinyl Chloride	0.26 "J"	ug/l	0.2	0.65	1	8260B		11/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		11/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		11/21/2020	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		11/21/2020	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		11/21/2020	CJR	1



**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812F  
**Sample ID** 3524 ORCHARD LANE  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/21/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/21/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/21/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/21/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/21/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/21/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/21/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/21/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/21/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/21/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/21/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/21/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/21/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/21/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/21/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/21/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812F  
**Sample ID** 3524 ORCHARD LANE  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/21/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/21/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/21/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/21/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/21/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/21/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/21/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		11/21/2020	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		11/21/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		11/21/2020	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		11/21/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812G  
**Sample ID** 3921 BLACK HAWK CT  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/24/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/24/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/24/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/24/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/24/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/24/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/24/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/24/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/24/2020	CJR	1
cis-1,2-Dichloroethene	1.19 "J"	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/24/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/24/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/24/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/24/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/24/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/24/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/24/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/24/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/24/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812G  
**Sample ID** 3921 BLACK HAWK CT  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/24/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/24/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/24/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/24/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/24/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/24/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		11/24/2020	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %			1	8260B		11/24/2020	CJR	1
SUR - Dibromofluoromethane	91	REC %			1	8260B		11/24/2020	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812H  
**Sample ID** 3618 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/24/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/24/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/24/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/24/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/24/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/24/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/24/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/24/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/24/2020	CJR	1
cis-1,2-Dichloroethene	1.3	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/24/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/24/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/24/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/24/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/24/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/24/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/24/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/24/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/24/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812H  
**Sample ID** 3618 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/24/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/24/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/24/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/24/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/24/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/24/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/24/2020	CJR	1
SUR - 4-Bromofluorobenzene	87	REC %			1	8260B		11/24/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/24/2020	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812I  
**Sample ID** 4111 THUNDER RIDGE  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/24/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/24/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/24/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/24/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/24/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/24/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/24/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/24/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/24/2020	CJR	1
cis-1,2-Dichloroethene	1.15 "J"	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/24/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/24/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/24/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/24/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/24/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/24/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/24/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/24/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/24/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812I  
**Sample ID** 4111 THUNDER RIDGE  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/24/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/24/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/24/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/24/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/24/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/24/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		11/24/2020	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %			1	8260B		11/24/2020	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		11/24/2020	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		11/24/2020	CJR	1



**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812J  
**Sample ID** 3817 VIEBAHN  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/24/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/24/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/24/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/24/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/24/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/24/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/24/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/24/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/24/2020	CJR	1
cis-1,2-Dichloroethene	0.82 "J"	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/24/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/24/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/24/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/24/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/24/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/24/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/24/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/24/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/24/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812J  
**Sample ID** 3817 VIEBAHN  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/24/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/24/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/24/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/24/2020	CJR	1
Vinyl Chloride	0.3 "J"	ug/l	0.2	0.65	1	8260B		11/24/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/24/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		11/24/2020	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %			1	8260B		11/24/2020	CJR	1
SUR - Dibromofluoromethane	89	REC %			1	8260B		11/24/2020	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812K  
**Sample ID** 3825 VIEBAHN  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/24/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/24/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/24/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/24/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/24/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/24/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/24/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/24/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/24/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/24/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/24/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/24/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/24/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/24/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/24/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/24/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/24/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/24/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812K  
**Sample ID** 3825 VIEBAHN  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/24/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/24/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/24/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/24/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/24/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/24/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		11/24/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		11/24/2020	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %			1	8260B		11/24/2020	CJR	1
SUR - Dibromofluoromethane	88	REC %			1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812L  
**Sample ID** 3322 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/24/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/24/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/24/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/24/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/24/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/24/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/24/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/24/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/24/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/24/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/24/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/24/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/24/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/24/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/24/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/24/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/24/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/24/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812L  
**Sample ID** 3322 CTH CR  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/24/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/24/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/24/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/24/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/24/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/24/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		11/24/2020	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		11/24/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	107	REC %			1	8260B		11/24/2020	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %			1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812M  
**Sample ID** 3327 HECKER RD  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/24/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/24/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/24/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/24/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/24/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/24/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/24/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/24/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/24/2020	CJR	1
cis-1,2-Dichloroethene	4.0	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/24/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/24/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/24/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/24/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/24/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/24/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/24/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/24/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/24/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812M  
**Sample ID** 3327 HECKER RD  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/24/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/24/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/24/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/24/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/24/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/24/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		11/24/2020	CJR	1
SUR - 4-Bromofluorobenzene	85	REC %			1	8260B		11/24/2020	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		11/24/2020	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		11/24/2020	CJR	1



Project Name FMR NEWTON GRAVEL PIT  
 Project # 60135471

Invoice # E38812

Lab Code 5038812N  
 Sample ID 3702 HECKER RD  
 Sample Matrix Water  
 Sample Date 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/24/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/24/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/24/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/24/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/24/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/24/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/24/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/24/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/24/2020	CJR	1
cis-1,2-Dichloroethene	0.55 "J"	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/24/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/24/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/24/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/24/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/24/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/24/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/24/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/24/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/24/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 5038812N  
**Sample ID** 3702 HECKER RD  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/24/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/24/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/24/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/24/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/24/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/24/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		11/24/2020	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %			1	8260B		11/24/2020	CJR	1
SUR - Dibromofluoromethane	91	REC %			1	8260B		11/24/2020	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 50388120  
**Sample ID** TB111720  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		11/24/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		11/24/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		11/24/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/24/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		11/24/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		11/24/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		11/24/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		11/24/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/24/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/24/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		11/24/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		11/24/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		11/24/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		11/24/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		11/24/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		11/24/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		11/24/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		11/24/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/24/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		11/24/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		11/24/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/24/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	3.3	1	8260B		11/24/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		11/24/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/24/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/24/2020	CJR	1

**Project Name** FMR NEWTON GRAVEL PIT  
**Project #** 60135471

**Invoice #** E38812

**Lab Code** 50388120  
**Sample ID** TB111720  
**Sample Matrix** Water  
**Sample Date** 11/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		11/24/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		11/24/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		11/24/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/24/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		11/24/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/24/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		11/24/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/24/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		11/24/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		11/24/2020	CJR	1
SUR - Toluene-d8	99	REC %				8260B		11/24/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %				8260B		11/24/2020	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %				8260B		11/24/2020	CJR	1
SUR - Dibromofluoromethane	85	REC %				8260B		11/24/2020	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-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	
Company: <b>AECOM</b>	Report To: Dave Henderson	Attention: Dave Henderson	
Address: 1555 N. RiverCenter Drive, Suite 214 Milwaukee, WI 53212, USA	Copy To: Dave Henderson	Company Name: SAME	
Email To: dave.henderson@aecom.com	Purchase Order No.:	Synergy Quote Reference:	
Phone: 414-944-6190 Fax:	Project Name: Former Newton Gravel Pit	Synergy Project Manager: Mike Ricker?	
Requested Due Date/TAT: Normal TAT	Project Number: 60135471		

REGULATORY AGENCY			
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER	
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER _____	
SITE LOCATION		<input type="checkbox"/> GA	<input type="checkbox"/> IL
		<input type="checkbox"/> IN	<input type="checkbox"/> MI
		<input type="checkbox"/> OH	<input type="checkbox"/> SC
		<input type="checkbox"/> WI	<input checked="" type="checkbox"/> OTHER _____

ITEM #	Section D Required Client Information		MATRIX CODE	SAMPLE TYPE G-GRAB C-COMP	COLLECTED		SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives							Requested Anal.	Filtered (Y/N)	Synergy Project Number Lab ID.			
	SAMPLE ID One Character per box (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> SO <sub>4</sub>	Methanol				Other		
✓ 1	2201 Elm Rd	DW	G	11/17/2020	8:15			3				X				X					S05892A
✓ 2	3027 Orchard Ln	DW	G	11/17/2020	8:45			3				X				X					B
✓ 3	4101 Thunder Ridge	DW	G	11/17/2020	9:45			3				X				X					C
✓ 4	3412 CTH CR	DW	G	11/17/2020	10:15			3				X				X					D
✓ 5	3008 S 28th St	DW	G	11/17/2020	10:45			3				X				X					E
✓ 6	3524 Orchard Ln	DW	G	11/17/2020	11:15			3				X				X					F
✓ 7	3921 Black Hawk Ct	DW	G	11/17/2020	11:45			3				X				X					G
✓ 8	3618 CTH CR	DW	G	11/17/2020	14:45			3				X				X					H
✓ 9	<del>2322 Elm Rd</del>	<del>DW</del>	<del>G</del>	<del>11/17/2020</del>	<del>0:15</del>			<del>3</del>				<del>X</del>				<del>X</del>					I
✓ 10	4111 Thunder Ridge	DW	G	11/17/2020	16:15			3				X				X					J
✓ 11	3817 Viebahn	DW	G	11/17/2020	16:45			3				X				X					K
✓ 12	3825 Viebahn	DW	G	11/17/2020	17:15			3				X				X					L

**Additional Comments:**

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i>	11/17/20	1:20					Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custom Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY)					

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <b>AECOM</b>		Report To: Dave Henderson		Attention: Dave Henderson	
Address: 1555 N. RiverCenter Drive, Suite 214 Milwaukee, WI 53212, USA		Copy To: Dave Henderson		Company Name: SAME	
Email To: dave.henderson@aecom.com		Purchase Order No.:		Synergy Quote Reference:	
Phone: 414-944-6190 Fax:		Project Name: Former Newton Gravel Pit		Synergy Project Manager: Mike Ricker?	
Requested Due Date/TAT: Normal TAT		Project Number: 60135471			

REGULATORY AGENCY	
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA
<input type="checkbox"/> DRINKING WATER	<input type="checkbox"/> OTHER _____
SITE LOCATION	
<input type="checkbox"/> GA	<input type="checkbox"/> IL
<input type="checkbox"/> IN	<input type="checkbox"/> MI
<input type="checkbox"/> OH	<input type="checkbox"/> SC
<input type="checkbox"/> WI	<input checked="" type="checkbox"/> OTHER _____

ITEM #	Section D Required Client Information <b>SAMPLE ID</b> One Character per box (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Filtered (Y/N)	Requested Amt	Synergy Project Number Lab ID.
		MATRIX CODE	SAMPLE TYPE	DATE	TIME													
		MATRIX CODE	SAMPLE TYPE	DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> CO <sub>3</sub>	Methanol	Other			
1	3322 CTH CR	DW	G	11/17/2020	17:45		3					X			X	5038812 L M N RW O		
2	3327 Hecker Rd	DW	G	11/17/2020	13:15		3				X			X				
3	3702 Hecker Rd	DW	G	11/17/2020	13:45		3				X			X				
4	9107 S 16th St	DW	G	11/17/2020			3				X			X				
5	TB 111720	DW	G	11/17/2020			18				X			X				
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i>	11/17/20	1:30				Temp in °C	Received on Ice	Coolbody Swilled Cooler	Samples Intact
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C
PRINT Name of SAMPLER:	DATE Signed (MM/DD/YYYY)	
SIGNATURE OF SAMPLER:		Received on Ice
		Coolbody Swilled Cooler
		Samples Intact