

2011 Annual Residential Well Sampling Report
Project No: 1036-10081

Prepared For:
Franklin Waste Facility Monitoring Committee

Prepared By:



WHAT WE DO TODAY TOUCHES SEVEN GENERATIONS.

In May of 1992 an agreement between The Waste Management Metro Landfill and Recycling Facility (Waste Facility) and the neighboring Municipalities was signed; a Host agreement. This agreement defined the rights and responsibilities of a Monitoring Committee that would be made up of representatives from the neighboring municipalities and the “host” community, City of Franklin. The Monitoring Committee was titled the Franklin Waste Facility Monitoring Committee (Franklin WFMC). The other communities with seats on the Franklin WFMC are:

- Milwaukee County
- Waukesha County
- Racine County
- City of Muskego
- Town of Raymond
- Town of Norway

One of the responsibilities of the Waste Facility is to procure annual sampling and testing of thirty five (35) residential wells, selected by the Franklin WFMC. The samples under go testing for constituents regulated by both the Primary and Secondary Federal Drinking Water Standards. The results of this testing is presented to the Franklin WFMC by the Waste Facility.

In 1996 the Franklin WFMC initiated a contract with Environmental Graphics, Inc.; a consultant to analyze the results from the Annual Residential Well Sampling and provide a report summarizing results, recording sampling history, and providing recommendations for the subsequent annual sampling. In 2003, the Franklin WFMC engaged the services of Ruekert Mielke, Inc. to perform the Annual Residential Well Sampling Report Contract for 2003 through 2005. The Franklin WFMC awarded the 2006-Annual Residential Well Sampling Contract to JSA Civil Environmental Engineers, Inc. (JSA). JSA has maintained the contract since 2006.

This year, 2011, the Franklin WFMC appointed Davy Laboratories¹ to perform the sampling and testing of the 35 wells. Davy had been selected the previous two years, following an open bid process and the previous years sampling protocols were in compliance with the contract between the Franklin WFMC and the Waste Facility.

JSA initiated the 2011 contract by reviewing the findings from the August 2011 testing of the 35 residential wells, sampled in July of 2011. JSA also made the commitment to generate this report, maintain the historic database, and aid the Franklin WFMC in the selection of the 35 residential wells for sampling in 2012.

On November 3, 2011, JSA has completed Tasks 1,2, and 3 of the “Annual Well Sampling Report”, by submitting the Well Sampling Report to the Franklin WFMC. This report includes a Map of Wells Sampled, Table 1- 2011 Residential Well Sampling, Table 2 – Historic Sampling Summary, Table 3 – 2011 Residential Well Samples Exceeding the Federal Secondary Drinking Water Standard, Table 4 – History of Constituents Detected Above LOD; and an additional map detailing the location of historic Dichlorodifluoromethane detections. All tables have been sized to fit on standard Letter sized paper and when applicable are

¹ Davy Laboratories, 115 Sixth Street, P.O. Box 2076, Lacrosse, WI 54602-2076
Performed sampling and analysis in 2009 thru 2011.

produced in duplex, however the maps still requires 11"x17" formatting.

Wells Sampled

In June 2011, JSA made recommendations to the Franklin WFMC for the selection of the 35 residential wells for the 2011 sampling. Wells were selected based on past sampling frequency, most recent sampling, and potential for trend analysis in organic constituents detected; as recommended in the 2010 Annual Residential Well Sampling Report. All wells selected, were not sampled. The owner of Site #14, tax key 893.9997.002² did not permit Davy Laboratory Staff access to the well for sampling. A substitution was not selected, the owner of the well had indicated future access but it was never provided. Three wells were sampled that were not currently within the database. Well sampling frequency was very diverse, having the majority of the wells sampled in the mid 2000's; one well had not been sampled since 1994. This year, 2011, sampling included wells located adjacent to the Waste Facility property North and South of the Facility, with wells further away from the facility to the East and South as well.

The sampling was performed by Davy Laboratories during August of 2010. The locations are marked on MAP 1 of the report, using Tax ID to identify the property that the well is located on. The Well location data is found in Table 1, providing Property Owner, Property Address, and previous sampling date. Both Map 1 and 2 do not show the locations of properties on Loomis and Ryan Road. The map will be modified as part of the 2012 Annual Well Sampling Report should Loomis and Ryan Road wells be sampled.

Davy sampled only from external locations with immediate connections to the well. They performed purging (discharging of water from the well for at least two minutes) prior to all sample gathering. Samples were handled and returned to the lab following protocols established by the US EPA for drinking water sampling and testing.

Federal Primary Drinking Water Standards

In 2010 the US EPA updated the Federal Primary Drinking Water Standards Maximum Contaminant Level (MCL) for several constituents that are in the protocols. The majority of these constituents are heavy metals, none of the affected constituents have ever been detected in the Franklin WFMC Annual Residential Well Sampling history. In the 2010 Annual Well Sampling report, JSA predicted that the MCL for Sulfate (SO₄) would be reduced from 250 mg/L to 125 mg/L; this regulation change did not occur, the MCL for SO₄ is still 250 mg/L.

The 2011 Annual Residential Well Sampling Laboratory Testing yielded no constituents that exceeded the Federal Primary Drinking Water Standards Maximum Contaminant Level (MCL). Four wells that were tested had a Volatile Organic Compound (VOC), detected above the Limit of Quantification (LOQ), but still several orders of magnitude below the MCL. Do to the contaminant types re-sampling was not warranted.

The constituents detected were Bromodichloromethane, Chlorodibromomethane, Chloroform, and Dichlorodifluoromethane. Each is described in detail below:

2 Heritz property – no previous sample date

- Bromodichloromethane - is a trihalomethane, CHBrCl_2 , that has historically been used as a flame retardant and solvent. Due to its classification as a trihalomethane it is only used as a reagent or intermediate in organic chemistry. Trihalomethanes are identified as environmental pollutants and carcinogens; they are a common by product of chlorination, created by the reaction between chlorine and natural organic compounds in the presence of ionic bromide. The MCL for Bromodichloromethane is 0.6 mg/L, the Preventative Action Limit (PAL) is 0.06 mg/L.
- Chlorodibromomethane – also known as Dibromochloromethane, CHBr_2Cl , is another trihalomethane. It was used for the same purposes as Bromodichloromethane and is formed in the same environment as the other Trihalomethane. The MCL for Chlorodibromomethane is 0.6 mg/L, the Preventative Action Limit (PAL) is 0.06 mg/L
- Chloroform - is an organic compound, CHCl_3 , which is a dense liquid at room temperature. It has been used as a refrigerant and solvent in the past and in the medical industry. It belongs to the Trihalomethane family as well, formed in a similar chlorinated environment without the presence of ionic Bromide. The MCL for Chloroform is 6.00 mg/L, the Preventative Action Limit (PAL) is 0.6 mg/L
- Dichlorodifluoromethane – Common name Freon 12 (R-12), CCL_2F_2 previously used as a refrigerant and aerosol propellant. Primarily used in automobile air conditioning systems. Use banned in 1995, but still found as a by product of aerosols such as Albuterol. More research is being done concerning this contaminant found in air and groundwater. The material appears to be less volatile than expected and is found in balanced concentrations between air and water, all over the globe. The lack of Dichlorodifluoromethane in several years of surface water testing suggests that it is a groundwater or sampling location contaminant only. The MCL for Dichlorodifluoromethane is 1,000.00 mg/L and the Preventative Action Limit is 200.00 mg/L. In past years when the incidence of Dichlorodifluoromethane “hits” were frequent, JSA did additional research on the contaminant. The US EPA has identified Dichlorodifluoromethane to be non-cancer causing and non-mutagenic.

All three Trihalomethane family constituents were detected in the Domask³ well. The concentration of the three; Bromodichloromethane at 0.00326 mg/L, Chlorodibromomethane at 0.001 mg/L, and Chloroform at 0.0202 mg/L; are all significantly below the PAL and MCL values that there is no health risk even from prolonged exposure. The neighboring wells do not have any matching constituents, suggesting that the well was treated with an excessive amount of chlorine. If the well owner responds to JSA, we will recommend that future treatment of the well will be conducted by a Wisconsin Licensed Professional.

The Ioder⁴ well contained a concentration of 0.001 mg/L of Chloroform on the date of sampling. The owner was contacted and in the care of the well, chlorine was used; very near the date of sampling; to clean pertinent components. It is unlikely that the constituent is still present in the groundwater being drawn at that well.

The last constituent, Dichlorodifluoromethane was detected in two wells, Heckler⁵ and

3 Colleen Domask, 11808 W. Loomis Road, Franklin, WI 53132 891.9992.000

4 Nick and Jackie Ioder, 10338 W. Ryan Road, Franklin, WI 53132 888.9998.001

5 Jenny and Steve Heckler, 10810 W. Oakwood Road, Franklin, WI 53132 938.9999.006

Seager⁶ well. The Heckler detection was thought to be a first time occurrence, but after reviewing the database, it would appear that the well was sampled in 2004 (then owned by Werther); the well had been sampled twice between 2004 and 2011 without any VOC detections. The 2011 Dichlorodifluoromethane concentration detected was 0.00543 mg/L greater than the 0.00027 mg/L that was detected in 2004; but both significantly less than the MCL of 1000.00 mg/L. The difference in concentrations should be considered if future sampling detects Dichlorodifluoromethane, this well should be selected for sampling in 2012.

The Seager well has been sampled six times, between 2001 and 2011. Of those sampling events, Dichlorodifluoromethane has been detected below the LOQ for each event. This year the concentration of Dichlorodifluoromethane in the Seager well was above the LOQ at 0.00182 mg/L; significantly below the MCL for the contaminant. This result is higher than the 2010 sampling event as well.

Wells that had previously been sampled, in previous years, that had detections of dichlorodifluoromethane, were also sampled in 2011 and yielded no concentrations of the constituent. Future sampling events will have some focus on wells with previous dichlorodifluoromethane results, however it will not have the primary focus that it did in the 2007 thru 2010 Annual Residential Well Sampling Event.

The Wisconsin Department of Natural Resources also maintains a set of parameters for groundwater contaminants. All constituents detected in the Well Sampling are found in NR 140 – Groundwater Quality. The Public Health Groundwater Quality Standards are similar to the Federal Primary Drinking Water standards.. The VOC's detected in the 2011 Well Sampling had no samples with constituents that exceeded the Preventative Action Limit (PAL), therefore no constituents that exceeded the Enforcement Standard.

JSA identified a repeated trend in detections of Dichlorodifluoromethane throughout the history of the Annual Well Sampling. This year, 2011, a separate map⁷ was developed indicating the location of Dichlorodifluoromethane detections only. The locations of detections on the map are primarily North and South of the Waste Management Metro Facility. The known geography of the area suggests that groundwater flow is toward the facility from North, South, and East. The facility's monitoring wells are sampled quarterly and Dichlorodifluoromethane has not been a constituent detected to date. The Veolia Emerald Park Landfill also has monitoring wells that are sampled quarterly with no history of Dichlorodifluoromethane detects.

To further evaluate a trend, plume, etc of the Dichlorodifluoromethane detections about the Waste Management Metro Facility would require a detailed study of all wells within the database and remapping of the groundwater flow and velocity. As there is no current or pending risk to public health, JSA would not advise the Committee to do further exploration regarding the Dichlorodifluoromethane detects about the facility. JSA recommends that the Committee support Waste Management in any additional work that Waste Management feels prudent to conduct.

6 William A. & Susie L. Seager, 10639 W. 8 Mile Rd., Franksville, WI 53126 012.04.21.05.019.000

7 Map 2

Federal Secondary Drinking Water Standards

The secondary standards act as guide lines for public water systems. Each well that had been previously sampled was compared to its past history. The 2011 Well Samples are consistent with the Well Sampling history and with the groundwater constituents of Southeastern Wisconsin.

Of the constituents measured under the Federal Secondary Drinking Water Standards, Iron (Fe) and Sulfate (SO₄) are detected in excess. Twelve (12)⁸ wells had Iron concentrations higher than 0.3 milligrams per liter (mg/L) and six (6)⁹ wells had Sulfate concentrations equal to or greater than 250 mg/L. There is no indication to suggest that these concentrations are anything other than naturally occurring and have been consistent over nearly 15 years of sampling and testing.

In past years of sampling many wells had Sulfate concentrations above 250 mg/L; the majority of these wells are now owned by the landfill or are outside of the defined sampling area. No well in 2011 showed significant changes to the Secondary Drinking Water Standards with regards to previous years results.

Conclusions

The 2011 Well Sampling Laboratory Results yielded the existence of four contaminants. These contaminants have been recorded before and are all beneath the MCL of the Federal Primary Drinking Water Standards. The contaminants were all VOCs and are listed below:

- Members of the Trihalomethane Family
 - Bromodichloromethane
 - Chlorodibromomethane
 - Chloroform
- Dichlorodifluoromethane

Dichlorodifluoromethane concentrations are three orders of magnitude less than any regulatory comment and is not a threat to the property owner. However, the history of the sampled wells shows an increase in concentration. This spring and early summer was very wet, the "Source" (North of the Landfill) of the Dichlorodifluoromethane could very well have been flushed, causing a slug of Dichlorodifluoromethane to move through the groundwater systems. Next years results will provide additional information to support that theory. There is no current or pending threat to human health based on the concentration of the Dichlorodifluoromethane detected in the 2011 Sampling Results.

In addition to the Dichlorodifluoromethane hits, three chemicals from the Trihalomethane family were detected in one well, these chemicals indicate that the well in question was over chlorinated recently. A second well's sample yielded a small concentration of Chloroform, when investigated that well too had received some chlorination treatment. Chloroform is a Trihalomethane, the other two are Chlorodibromomethane and Bromodichloromethane; all three are common byproducts of water chlorination.

8 See Table 3 Results Fe+

9 See Table 3 Results SO₄

The subject wells sampled were consistent with historic sampling results with respect to The US EPA Secondary Drinking Water Standards, exceedances were found in Iron and Sulfate concentrations; but do not pose a threat to public health.

Recommendations

The sampling locations for 2011 were nearly “text book” in alignment and proximity about the Waste Facility. Though the same wells need not be sampled year after year, the Franklin WFMC would be well served to add map location requirements to the 2011 Annual Well Sampling Selection.

JSA recommends 2011 – Residential Well Sampling of:

- Residents Northeast and East
- Wells that have been positive for Dichlorodifluoromethane
 - Seager
 - Heckler
 - Kopp

**Franklin Waste Facility Monitoring Committee
2011 Well Monitoring Report**

Table 1 2011 Residential Well Sampling

<u>Tax ID</u>	<u>Owner</u>	<u>Street</u>	<u>City</u>	<u>Zip</u>	<u>Site #</u>	<u>Prev Sample</u>
936.9996.000	Donald & Pauline Acker	10023 S. 92 St.	Franklin, WI	53132	1	2007
985.9996.000	Duane Acker	8731 8 Mile Rd	Franksville, WI	53126	2	2007
012.04.21.06.059.016	Sandra J. Blazek	11410 W 7-1/8 Mile Rd	Franksville, WI	53126	3	2008
012.04.21.06.010.010	Vince Carriveau	216 Hwy 45	Franksville, WI	53126	4	2009
987.9997.002	Robert & M Coblantz	10122 S County Line Rd	Franksville, WI	53126	5	2005
892.9991.000	Robert Diedrich	11111 W. Ryan Rd.	Franklin, WI	53132	6	2010
891.9992.000	Colleen Domask	11808 W. Loomis Rd	Franklin, WI	53132	7	2008
010.04.20.01.005.000	Fred Gaffney	8820 N. Raynor Ave.	Franksville, WI	53126	8	1999
935.9994.004	Christine Gaulke	8674 W Oakwood Rd.	Franklin, WI	53132	9	2007
012.04.21.06.003.000	Arlen Gellings	239 S. 108 St.	Franksville, WI	53126	10	2008
012.04.21.06.062.000	Diane/Kay Hackstein	626 & 628 Adeline Dr.	Franksville, WI	53126	11	2008
985.9995.001	Mark Hagert	10820 92 Street	Franklin, WI	53132	12	2008
938.9999.006	Jenny & Steve Heckler	10810 W. Oakwood Rd.	Franklin, WI	53132	13	2009
893.9997.002	Joseph Heritz	10931 W. Ryan Rd.	Franklin, WI	53132	14	**
936.9997.000	William K & Rose Hinkel	9612 W. Oakwood Rd.	Franklin, WI	53132	15	2008
888.9998.001	Nick/Jackie Ioder	10338 W. Ryan Rd.	Franklin, WI	53132	16	*
944.9995.000	Joanne Jarocki/Alan Kleman	10474 S. 92 St..	Franklin, WI	53132	17	2000
012.04.21.06.007.000	Donald Kochnowicz	107 S. 108 St.	Raymond, WI	53126	18	2000
938.9999.004	Adeline & Helmut Kopp	10944 W. Oakwood Rd.	Franklin, WI	53132	19	2007
892.9994.000	Eugene Magarich	11327 W. Ryan Rd.	Franklin, WI	53132	20	2010
012.04.21.06.054.000	Don Mateicka, Sr.	560 Shirley Dr.	Franksville, WI	53126	21	2007
012.04.21.06.064.000	Jerome M./Marilyn Metz	11407 Shirley Dr.	Franksville, WI	53126	22	2005
938.9998.000	Charles Presser	11100 W. Oakwood Rd.	Franklin, WI	53132	23	2005
010.04.20.01.013.000	Dennis/Judy Sanford	8608 Raynor Ave.	Franksville, WI	53126	24	2008
012.04.21.05.019.000	William & Susie Seager	10639 W. 8 Mile Rd.	Franksville, WI	53126	25	2010
012.04.21.05.024.000	Mike/Lisa Sinda	10126 W. 7 Mile Rd.	Franksville, WI	53126	26	2009
937.9999.003	Stephanie/John Sosa	10534 W. Oakwood Rd.	Franklin, WI	53132	27	*
012.04.21.06.030.000	John Stroud	702 Hwy 45	Franksville, WI	53126	28	2004
938.9999.005	Branden Sumiejski	10830 W. Oakwood Rd.	Franklin, WI	53132	29	2008
012.04.21.06.013.000	Kim Thiessenhusen	326 124 St.	Franksville, WI	53126	30	1994
987.9997.003	Sally Thompson	10280 W. South Cty Line Rd	Franklin, WI	53132	31	2001

* Well not previously sampled

** Well not sampled due to Owner

Table 1 (cont) 2010 Residential Well Sampling

<u>Tax ID</u>	<u>Owner</u>	<u>Street</u>	<u>City</u>	<u>Zip</u>	<u>Site #</u>	<u>Prev Sample</u>
012.04.21.07.005.000	Gary Vanden Boom	11507 W. 7 Mile Rd.	Franksville, WI	53126	32	2007
899.9990.052	Marion Woelbing	8850 W. Bosch Lane	Franklin, WI	53132	33	*
934.9999.002	Marvin Wolff	8400 W. Oakwood Rd.	Franklin, WI	53132	34	2009
012.04.21.05.022.000	William Zamecnik	10614 W. 7 Mile Rd.	Franksville, WI	53126	35	2003

* Well not previously sampled

** Well not sampled due to Owner

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Table 2 Historical Sampling Summary

WELL ID	Owner(s)	Well Address	CityStateZip	Taxkey Id	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
1	Harold Abramowski	8808 Raynor Avenue	Franksville, WI 53126	010.04.20.01.031.000	X						X		X		X			X					
2	Don Adams	10307 W. Oakwood Rd.	Franklin, WI 53132	942.9997.000	X																		
3	Albert H & Gwen Schill	10942 S. 124th St.	Franklin, WI 53132	989.9998.003	X	X											X					X	
4	Gregory D. & Betty A. Solfest	11920 7 Mile Rd.	Caledonia, WI 53108	012.04.21.06.027.000	X						X		X		X			X					
5	Joseph & Nancy Bedalov	11403 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.011.000	X				X		X			X				X			X		
6	Jeffrey & Penny Hill	654 Adeline Dr.	Franksville, WI 53126	012.04.21.06.044.000	X																		
7	Preston Ludtke & Jane Riehle	11230 7 Mile Rd.	Franksville, WI 53126	012.04.21.06.035.000	X		X				X			X			X				X		
8	Kurt L. & Sharon L. Block JR	11417 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.010.000	X						X			X		X				X	X		
9	Kim R. Borchardt	11316 7 Mile Road	Franksville, WI 53126	012.04.21.06.034.000	X																		
10	Audrey Bosch	10923 7 Mile Rd.	Hales Corners, WI 53130	012.04.21.07.001.000	X						X				X								
12	Richard S. & Mardell A. Bruhn	21204 7 Mile Rd.	Franksville, WI 53126	010.04.20.01.026.000	X								X			X			X	X			
13	Doris Carriveau	216.218 Highway 45	Franksville, WI 53126	012.04.21.06.010.020	X			X			X		X		X			X			X		
14	Gilbert Couillard	10568 S. 124th St.	Franklin, WI 53132	940.9997.000	X					X	X		X		X			X				X	
15	Stever/Liles	8122 Raynor Ave.	Franksville, WI 53126	012.04.21.06.024.000	X						X	X				X							
16	Ronald J. Plevak	21719 8 Mile Rd.	Palmyra, WI 53156	010.04.20.01.001.000	X			X			X												
17	Dorothy S. Diekow	460 S. 124th St.	Franksville, WI 53126	012.04.21.06.006.000	X					X						X				X			
18	Dale M. & Teri L. Drought	21510 7 Mile Rd.	Franksville, WI 53126	010.04.20.01.016.000	X																		
19	Le Roy & Ardith A. Revolinski	21016 7 Mile Rd.	Franksville, WI 53126	012.04.21.06.028.000	X				X		X		X	X									
20	Ronald Latus	10422 S. 112th St.	Franklin, WI 53132	941.9985.000	X			X					X		X					X			
21	Dean R. Storm	11431 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.004.000	X																		
22	Rosemarie Frey	10668 S. 112th St.	Franklin, WI 53132	988.9998.000	X																		
23	Eve Parsons	8108 Raynor Ave.	Franksville, WI 53126	010.04.20.01.027.000	X																X		
24	Alan J. Gellings Trust	223 S. 108th St.	Franksville, WI 53126	012.04.21.06.008.000	X					X				X		X		X					
25	Arlen C. Gellings	239 S. 108th St.	Franksville, WI 53126	012.04.21.06.003.000	X					X	X			X		X				X			X
26	Joseph G. & Diana L. Gellings	10346 7 Mile Rd.	Franksville, WI 53126	012.04.21.05.021.000	X								X		X								
27	Tom E. & Lisa M. Harris	449 Adeline Dr.	Franksville, WI 53126	012.04.21.06.031.000	X				X		X		X		X							X	
28	Adrine B. Hebron Trust	1243 S. 108th St.	Franksville, WI 53126	012.04.21.07.002.000	X												X				X		
29	Jon & Sheila J. Colby	1331 S. 108th St.	Franksville, WI 53126	012.04.21.07.046.000	X															X			
30	Jack D. & Kathleen A. Hintz	8832 Raynor Ave.	Franksville, WI 53126	010.04.20.01.004.000	X												X						
32	Harold Jordan	9801 W. Oakwood Rd.	Franklin, WI 53132	943.9999.000	X																		
33	Jeffrey D. JR & Penny S. Hill	623.625 Adeline Dr.	Franksville, WI 53126	012.04.21.06.047.000	X					X	X												
33	Deanna M. Chiapete	11287 7 1/8 Mile Rd.	Franksville WI 53126	012.04.21.06.057.000														X	X		X		
34	Dennis Karthausser	10667 S. 112th St.	Franklin, WI 53132	941.9999.000	X																		
35	Robert J. & Jill A. Janikowski	11567 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.016.000	X					X	X	X	X		X						X		
36	Joseph & Joyce L. Knox	11536 7 Mile Rd.	Franksville, WI 53126	012.04.21.06.036.000	X																X		
37	Waste Management	319 S. 108th St.	Chicago, IL 60690.1450	012.04.21.06.001.000	X																		
38	Donald Lange	10905 W. Oakwood Rd.	Franklin, WI 53132	941.9983.000	X						X		X			X						X	
39	Ralph Losey	10520 S.112th St.	Franklin, WI 53132	941.9996.000	X				X		X	X								X		X	

WELL ID	Owner(s)	Well Address	CityStateZip	Taxkey Id	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
40	Steven Zirzow	11757 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.017.000	X				X							X							
41	Eugene Masconi	10530 S. 112th St.	Franklin, WI 53132	941.9997.000	X			X															
42	Don Mateicka Sr.	560 Shirley Dr.	Franksville, WI 53126	012.04.21.06.054.000	X			X			X	X	X		X				X				X
43	Ruben & Deborah Martinez	9329 W. Oakwood Rd.	Franklin, WI 53132	943.9997.004	X					X				X							X		
44	Frank J. & Aloys J. Mente	8502 Raynor Ave.	Franksville, WI 53126	010.04.20.01.020.000	X				X			X										X	
45	Jerome & Marilyn Metz	11407 Shirley Ct.	Franksville, WI 53126	012.04.21.06.064.000	X								X					X			X		X
46	Gary F. Fleming & Christine R. Bitter	603 Adeline Dr.	Franksville, WI 53126	012.04.21.06.048.000	X			X			X					X	X						
48	Jon & Barbara Olson	610.612 Adeline Dr.	Franksville, WI 53126	012.04.21.06.066.000	X					X	X	X			X			X			X		
49	Sanford & Kathleen Olson Trust	11308 7 Mile Rd.	Franksville, WI 53126	012.04.21.06.037.000	X							X	X			X							
50	Michael Penn	11735 W. Oakwood Rd.	Hales Corners, WI 53130	940.9989.000	X							X			X	X	X	X	X				
51	John Perkovich	10386 S. 124th St.	Franklin, WI 53132	940.9994.000	X										X								
52	Robert F. & Victoria M. Foulston	444 Adeline Dr.	Franksville, WI 53126	012.04.21.06.065.000	X																		
53	Dennis & Judith Sanford	8606 Raynor Ave.	Franksville, WI 53126	010.04.20.01.013.000	X					X	X				X			X	X	X			X
54	Schaefer Family Living Trust	21224 7 Mile Rd.	Franksville, WI 53126	010.04.20.01.017.002	X													X					
55	Elfriede Schemeit Trust	461 Adeline Dr.	Franksville, WI 53126	012.04.21.06.041.000	X							X			X								
56	Michael N. & Pamela K. Lewis	11600 7 Mile Rd.	Franksville, WI 53126	012.04.21.06.040.000	X							X						X			X		
57	Greg Schrubbe	741 S. 108th St.	Franksville, WI 53126	012.04.21.06.069.000	X																		
58	Personally Yours Senior Living	12115 7 Mile Rd.	Waterford, WI 53185	012.04.21.07.014.000	X																		
59	Robert Schweitzer	10555 S. 92nd St.	Franklin, WI 53132	943.9997.007	X				X		X		X			X							
60	Timothy Smith	9209 W. Oakwood Rd.	Franklin, WI 53132	943.9996.001	X					X	X				X			X				X	
61	Charles Sobbe	707 Adeline Dr.	Franksville, WI 53126	012.04.21.06.045.000	X																		
62	John Stroud	702 Highway 45	Franksville, WI 53126	012.04.21.06.030.000	X								X			X							X
63	Joseph D. & Doreen A. Langfeldt	880 Adeline Dr.	Franksville, WI 53126	012.04.21.06.038.000	X		X				X	X				X							
64	Michael Theys	10509 8 Mile Rd.	Franksville, WI 53126	012.04.21.05.016.000	X							X				X				X			
65	Gary VandenBoom	11507 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.005.000	X							X			X				X				X
66	Carol Welch	359 S. 108th St.	Franksville, WI 53126	012.04.21.06.002.000	X				X			X	X			X					X		
67	Gregory Worman	499.501 Adeline Dr.	Greenfield, WI 53228	012.04.21.06.046.000	X			X			X				X			X					
68	Bill Zamecnik	10614 7 Mile Rd.	Franksville, WI 53126	012.04.21.05.022.000	X							X	X		X		X			X		X	X
69	Faro R & Florence Balisteri	10623 W. Oakwood Rd.	Franklin, WI 53132	942.9998.000		X						X	X		X								
70	Frederick R. Gaffney	8820 Raynor Ave.	Oak Creek, WI 53154	010.04.20.01.005.000		X		X			X												X
71	Joseph G. & Diana L. Gellings	642 S. 108th St.	Franksville, WI 53126	012.04.21.06.068.000		X							X										
72	Steve Bodi & Nanette Carlson	11207 W. 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.008.000		X		X											X				
73	Ronald R. Heritz	538 Raynor Ave.	Franksville, WI 53126	012.04.21.06.021.000		X					X			X			X			X			
74	Jeffrey & Penny Hill	653 Adeline Dr.	Franksville, WI 53126	012.04.21.06.044.000		X					X							X		X		X	
75	Kim Williams & Paul Thiessenhusen	326 S. 124th St.	Franksville, WI 53126	012.04.21.06.013.000		X																	X
76	Kenneth & Mary Schingeck	11765 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.019.000		X					X			X			X			X			
77	Brian E. & Lana M. VanScoy	642 Raynor Ave.	Franksville, WI 53126	012.04.21.06.017.000		X																	
78	Ronald VandenBoom	524 Raynor Ave.	Franksville, WI 53126	012.04.21.06.019.000		X	X						X	X			X	X			X	X	
80	Wayne Ziemer	11400 7 Mile Rd.	Franksville, WI 53126	012.04.21.06.032.000		X	X					X	X		X			X					
81	Dale/Linda Meyer	660 Adeline Dr.	Franksville, WI 53126	012.04.21.06.060.000			X				X						X						
82	Norm/Laura Swenson	11285 Shirley Dr.	Franksville, WI 53126	012.04.21.06.055.000			X				X			X	X					X			
83	William Schittinger	10341 S. 92nd St.	Franklin, WI 53132	943.9997.010			X				X			X		X				X			
84	Amalia Weber	10632 S. 112th St.	Franksville, WI 53126	941.9998.000			X																
85	Jeffrey & Penny Hill	651 Adeline Dr.	Franksville, WI 53126	012.04.21.06.044.000			X									X							

WELL ID	Owner(s)	Well Address	CityStateZip	Taxkey Id	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
86	Kim Williams & Paul Thiessenhusen	326 S. 124th St.	Franksville, WI 53126	012.04.21.06.013.000											X								
86	Kim Williams & Paul Thiessenhusen	326 S. 124th St.	Franksville, WI 53126	012.04.21.06.013.000			X				X						X						
87	Blanche Meyers	8916 Raynor Ave.	Franksville, WI 53126	010.04.20.01.003.000				X															
88	Frank Nowag	580 Shirley Dr.	Franksville, WI 53126	012.04.21.06.042.010					X					X		X	X					X	
89	Lisa Gardner	664 Shirley Dr.	Franksville, WI 53126	012.04.21.06.042.000					X			X											
90	Ronald J. Plevak	S98 W12712 Loomis Rd.	Palmyra, WI 53156	010.04.20.01.001.000							X												
91	Roger Berndt	12320 W. Oakwood Rd.	Franklin, WI 53132	939.9996.006							X	X				X					X		
92	James Bonney	10146 S. 124th St.	Franklin, WI 53132	939.9996.002							X									X			
93	John T. Bunich	11210 W. 7 Mile Rd.	Franksville, WI 53126	012.04.21.06.043.000	X				X		X		X				X				X		
94	James Drzewiecki	10780 S. 92nd St.	Franklin, WI 53132	985.9994.002							X	X			X			X				X	
95	William K & Rose Hinkel	9612 W. Oakwood Rd.	Franklin, WI 53132	936.9997.000							X	X	X		X					X			X
96	Theodore & W Ignasiak	9880 S. 112th St.	Franklin, WI 53132	892.9999.000							X				X				X		X		
97	Norbert & Susan Kita	10728 S. 92nd St.	Franklin, WI 53132	985.9993.003							X	X							X				
98	Craig & Sheryl Comp	10944 W. Oakwood Rd.	Franklin, WI 53132	938.9997.000							X		X				X		X				
100	Anthony H. & Jane A. Mathews	11523 W. 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.006.000							X				X								
101	Mayer, S	11100 W. Oakwood Rd.	Franklin, WI 53132	938.9999.009							X			X			X						
102	Clyde\Barb Perdsock	9223 8 Mile Rd.	Franksville, WI 53126	012.04.21.05.002.000							X	X			X			X	X	X	X	X	
103	Charles H jr Presser	11100 W Oakwood Rd.	Franklin, WI 53132	938.9998.000							X						X		X		X		X
104	Todd Sarenac	9355 County Line Rd.	Milwaukee, WI 53219	012.04.21.05.009.000							X												
105	Michael Sinda	10126 7 Mile Rd.	Franksville, WI 53126	012.04.21.05.024.000							X						X				X		X
106	William Soliwoda	239 S. 92nd St.	Franksville, WI 53126	012.04.21.05.003.000							X												
107	Francis Stich	10630 S. 92nd St.	Franklin, WI 53132	944.9998.000							X	X				X				X		X	
108	William Theys	312 S. 108th St.	Franklin, WI 53132								X			X									
109	Ludwig Vretenar	301 S. 92nd St.	Franksville, WI 53126	012.04.21.05.005.000							X			X	X			X			X		
110	Helmut & Adeline Kopp	10944 W. Oakwood Rd.	Franklin, WI 53132	938.9999.004							X	X		X					X	X	X	X	X
111	Donald & W Woelbing	8910 W. Bosch Ln.	Franklin, WI 53132	935.9995.000							X				X				X	X			
112	Marvin Wolff	8400 W. Oakwood Rd.	Franklin, WI 53132	934.9999.002							X			X			X					X	X
113	Waste Management	10712 S. 124th St.	Chicago, IL 60690.1450	010.04.20.01.002.000																			
114	Elroy & W Rynders	8600 W Oakwood Rd.	Franklin, WI 53132	935.9994.002								X		X			X				X		
115	Thomas & Chris Gaulke	8674 W. Oakwood Rd.	Franklin, WI 53132	935.9994.004											X				X				X
116	Donald & Paulene Acker	10023 S. 92nd St.	Franklin, WI 53132	936.9996.000										X			X						X
118	Evelyn Acker	8820 W. County Line Rd.	Franksville, WI 53126	985.9997.001								X								X			X
119	Wayne F. & Diane M. Anderson	11761 W. 7 Mile Rd.	Franksville, WI 53126	012.04.21.07.018.000								X		X		X					X		
121	Doreen Hinkel	9808 W. Oakwood Road	Franklin, WI 53132	936.9998.003															X				
125	Joseph & Sandra Blazek	11530 W. 7 Mile Rd.	Franksville, WI 53126	012.04.21.06.059.016								X		X			X			X			X
126	Erwin & Vir. Revoc Trust Bosch	8830 W. Oakwood Rd.	Franklin, WI 53132	944.9994.000																			
127	Edwin & Vir. Bosch	8830 W. Oakwood Rd.	Franklin, WI 53132	935.9999.006	X										X					X			
129	Vincent Carriveau	216 Highway 45	Franksville, WI 53126	012.04.21.06.010.010													X				X		X
131	Frank & Rafaela Rodriguez	10653 S. 76th St.	Franklin, WI 53132	945.9999.000												X							
131	Edward C. Drewitz Trust	219 92nd St.	Franksville, WI 53126	012.04.21.05.007.000											X								
134	Robert F. & Victoria M. Foulston	444 Adeline Dr.	Franksville, WI 53126	012.04.21.06.065.000											X								
135	Scott S. & Diana Fredrickson	8432 W. County Line Rd.	Franksville, WI 53126	985.9999.000								X		X						X	X		
138	Ruth M. Grandlich	11722 W. Oakwood Rd.	Franklin, WI 53132	939.9999.000								X					X		X			X	
140	Shirley Haasch	6614 Channel Rd.	Waterford, WI 53185	012.04.21.06.042.000								X						X					

**Franklin Waste Facility Monitoring Committee
2011 Well Monitoring Report**

Table 3 2011 Residential Well Samples Exceeding the Federal Secondary Drinking Water Standards

<u>Tax ID</u>	<u>Owner</u>	<u>Site #</u>	<u>Results Fe+</u>		<u>Results SO4</u>	
			<u>Iron</u> (mg/L)	<u>MCL</u>	<u>Sulfate</u> (mg/L)	<u>MCL</u>
985.9996.000	Duane Acker	2	3.47	0.30		250
012.04.21.06.059.016	Sandra J. Blazek	3			251	250
012.04.21.06.010.010	Vince Carriveau	4			279	250
987.9997.002	Robert & M Coblentz	5			325	250
892.9991.000	Robert Diedrich	6	0.31	0.30		
891.9992.000	Colleen Domask	7	0.805	0.30		
935.9994.004	Christine Gaulke	9	0.314	0.30		250
012.04.21.06.062.000	Diane/Kay Hackstein	11			346	250
938.9999.006	Mark Hagert	12	0.791	0.30		250
888.9998.001	Nick/Jackie Ioder	16	0.319	0.30		250
892.9994.000	Eugene Magarich	20	0.526	0.30	350	250
012.04.21.06.064.000	Jerome M./Marilyn Metz	22	0.375	0.30		250
938.9998.000	Charles Presser	23	0.445	0.30		
012.04.21.05.019.000	William & Susie Seager	25		0.30	262	250
012.04.21.06.030.000	John Stroud	28	0.47	0.30		250
012.04.21.07.005.000	Gary Vanden Boom	32	0.44	0.30		250
012.04.21.05.022.000	William Zamecnik	35	4.96	0.30		250

**Franklin Waste Facility Monitoring Committee
2011 Well Monitoring Report**

Table 4 Historic Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	2010 Residential Well Samples Exceeding Constituent LOD		
			<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)
012.04.21.07.018.000	119	Anderson	0.488		
940.9997.000	14	Couillard	0.59		
939.9999.000	138	Grandlich	0.31		
012.04.21.06.007.000	155	Kochnowicz	0.93		
941.9983.000	38	Lange	0.668		
941.9996.000	39	Losey	1.43		
892.9994.000	814	Magarich	0.37		
010.04.20.01.020.000	43	Mente	0.714		
939.9996.005	165	Millin	0.546		
012.04.21.06.042.010	88	Nowag	0.326		
012.04.21.05.013.000	815	Schultz		318	
012.04.21.05.019.000	146	Seager	0.548		0.62
012.04.21.06.025.000	807	Eperen	0.343		
012.04.21.06.019.000	78	Vandenboom	0.474		

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2009 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Bromodi</u>			
			<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>thane</u> (µg/L)	<u>Chloroform</u> (µg/L)
012.04.21.06.036.000	36	Knox			0.05	0.2
012.04.21.05.010.000	5	Bedalov	0.564			
012.04.21.07.010.000	8	Block	0.367			
012.04.21.06.043.000	93	Bunich	0.664			
012.04.21.06.010.020	13	Carriveau	0.31	255		
985.9999.000	135	Fredrickson	0.632	299		
012.04.21.06.021.000	73	Heritz	0.43			
012.04.21.06.057.000	809	Jorgenson	0.332			
012.04.21.06.036.000	36	Knox	1.87			
012.04.21.05.013.000	815	Knutsen		320		
012.04.21.06.064.000	45	Metz	0.427			
012.04.21.06.066.000	48	Olson	0.532	292		
012.04.21.05.002.000	102	Perdreck	0.33			
938.9998.000	103	Presser	0.58			
935.9998.000	114	Rynders	0.43			
012.04.21.05.024.000	105	Sinda		277		
012.04.21.07.019.000	76	Schingeck	0.40			
012.04.21.06.019.000	78	VandenBoom	0.363			
012.04.21.05.005.000	109	Vretenar		364		
012.04.21.06.002.000	66	Welch	0.332			
012.04.21.05.022.000	680	Zamecnik	7.68			

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2008 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>Chloro- methane</u> (µg/L)	<u>Toluene</u> (µg/L)
985.9997.001	118	Acker	0.46				
012.04.21.05.012.010	149	Arnold		350			
012.04.21.06.059	125	Blazek		260			
012.04.21.07.010	8	Block	0.35	260			
939.9996.002	92	Bonney	0.33				
938.9999.004	110	Kopp			0.21		
985.9999.000	135	Fredrickson	0.69	340			
012.04.21.06.003	25	Gellings	0.39	290			
012.04.21.06.062.000	141	Hackstein		350			
941.9996.000	39	Losey	0.42				
012.04.21.06.058	810	Mateika		340			
010.04.20.01.027	23	Parsons	0.51				
940.9989.000	50	Penn					0.36
012.04.21.05.002	102	Perdzock		280	0.28		
010.04.20.01.013	53	Sanford	0.35				
012.04.21.05.019	146	Seager	0.48	250	0.84		
938.9999.005	181	Sumiejski	0.48				
012.04.21.05.016	64	Theys/Wilke		260			
012.04.21.06.025	807	Van Eperen	0.54				
944.9996.000	778	Vogt/Stieff	0.33			6.40**	
935.9995.000	111	Woelbing	1.40				
012.04.21.05.022.000	680	William Zamecnik	7.68				

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2007 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>Styrene</u> (µg/L)	<u>Toluene</u> (µg/L)
012.04.21.06.012.100	294	Bayer	0.42	250			
938.9997.000	98	Comp	0.31				
939.9999.000	138	Grandlich	0.93				
012.04.21.06.062.000	141	Hackstein		360			
936.9998.003	121	Hinkel	0.48				
012.04.21.07.007.000	147	Kietzke	0.38				
012.04.21.06.007.000	155	Kochnowicz	1.30				
938.9999.004	110	Kopp			0.16		
012.04.21.06.059.004	177	Krause	0.49				
941.9985.000	20	Latus	0.36				
941.9997.000	42	Mateicka, Sr.		370			
010.04.20.01.001.000	17	Olson	0.32	340			
940.9989.000	50	Penn	0.97				0.48
012.04.21.05.002.000	102	Perdreck		260	0.22		
938.9998.000	103	Presser			0.61**		
010.04.20.01.013.000	53	Sanford	0.37				
012.04.21.05.019.000	146	Seager	0.37	250	0.37		
012.04.21.06.025.000	807	Van Eperen	0.48	250			
012.04.21.06.017.000	65	VandenBoom	0.51	260	0.74**		
935. 9999.009	808	Woelbing				0.20	

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2006 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>Chloroform</u> (µg/L)
985.9997.003	355	Acker	1.40			
012.04.21.05.010.000	149	Arnold		340		0.16
012.04.21.06.012.100	294	Bayer	0.42	260		
012.04.21.07.011.000	5	Bedalov	0.36	260		
012.04.21.06.059.016	125	Blazek		270		
012.04.21.07.008.000	72	Carlson	0.55			
012.04.21.06.010.020	13	Carriveau		360		
940.9997.000	14	Couillard	0.35			
985.9994.002	94	Drzewieki,				0.33
012.04.21.06.042.000	89	Gardner	0.36	300		
012.04.21.06.008.000	24	Gellings	0.74	270		
012.04.21.06.044.000	6	Hill		330		
941.9982.000	38	Lange	0.62			
939.9998.001	165	Millin	0.62			
012.04.21.06.066.000	48	Olson	0.30	370		
940.9989.000	50	Penn	0.37		2.7**	
012.04.21.05.002.000	102	Perdzock		270	0.25	
012.04.21.06.013.000	86	Thiessenhusen	0.42			
012.04.21.06.017.000	65	VandenBoom	0.39			
935. 9999.009	808	Woelbing	1.50			
012.04.21.06.046.000	67	Worman	0.42	310		
012.04.21.06.032.000	80	Ziemer	1.30	250		

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2005 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>Chloro- methane</u> (µg/L)	<u>Chloroform</u> (µg/L)	<u>Toluene</u> (µg/L)
012.04.21.07.018.000	119	Anderson	0.31					
012.04.21.05.010.000	149	Arnold	0.33	340				
010.04.20.01.026.000	12	Bruhn		260				
987.9997.002	167	Coblentz	0.43	310				
012.04.21.06.048.000	46	Fleming, Sr.		320				
012.04.21.06.004.000	803	Gellings	0.46	280				
939.9999.000	138	Grandlich	0.97					
012.04.21.07.002.000	28	Hebron	0.36					
012.04.21.06.021.00	73	Heritz	0.48					
938.9999.004	110	Kopp	0.31		0.18			
012.04.21.06.035.000	7	Ludke	0.31					
939.9995.000	722	Machulak	0.81					
012.04.21.06.060.000	81	Meyer	0.57	270				
939.9996.005	165	Millin	0.55					
012.04.21.06.042.010	88	Nowag	0.71	390			1.2**	0.19
989.9998.003	3	Schill						
012.04.21.07.019.000	76	Schingeck	0.56					
012.04.21.05.019.000	146	Seager	0.53	250	0.37			
012.04.21.05.024.000	105	Sinda		310				
944.9999.002	782	Stanisz				0.19		
012.04.21.06.025.000	807	Van Eperen		260				
012.04.21.06.019.000	78	VandenBoom	0.36	250	0.16			

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2004 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>Toluene</u> (µg/L)
939.9996.006	91	Berndt	0.42			
012.04.21.07.010.00	8	Block	0.35	260		
010.04.20.01.001.000	16	DeBack	0.46	300		
892.9991.000	214	Diekow	1			
012.04.21.06.048.000	46	Fleming, Sr.		300		
012.04.21.06.008.000	24	Gellings		250		0.16
012.04.21.06.003.000	25	Gellings		250		
012.04.21.05.021.000	26	Gellings	0.35			
012.04.21.06.044.000	6	Hill		330		
012.04.21.06.042.010	88	Nowag	0.34	370		
012.04.21.06.037.000	49	Olson	0.52		0.94**	
940.9989.000	50	Penn	0.35		0.93**	
938.9999.006	716	Werther			0.27	

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2003 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)
985.9996.000	117	Acker	1		
012.04.21.07.018.000	119	Anderson	0.33		
942.9998.000	69	Balisteri	0.32		0.87**
012.04.21.06.010.020	13	Carriveau		390	
012.04.21.05.007.000	131	Drewitz	0.36	250	
985.9999.000	135	Fredrickson	0.68	310	
938.9992.000	705	Immekus	0.51		
012.04.21.07.007.000	147	Kietzke	0.51		
012.04.21.06.059.004	177	Krause	0.55	270	
941.9985.000	20	Latus	0.31		
941.9997.000	42	Mateicka, Sr.	0.53	320	
012.04.21.07.006.000	100	Mathews			0.44
939.9996.005	165	Millin	0.49		
012.04.21.06.066.000	48	Olson	0.34	320	
012.04.21.05.002.000	102	Perdzock			0.38
010.04.20.01.013.000	53	Sandford	0.35		
Surface Water			0.31		
012.04.21.05.005.000	109	Vretenar		360	
935. 9999.009	808	Woelbing	6.1		
012.04.21.06.046.000	67	Worman	0.33	270	
012.04.21.06.032.000	80	Ziemer	2.9		

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2002 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>Chloroform</u> (µg/L)
01204.21.07.011.000	5	Bedalov	0.43	260		
012.04.21.06.059.016	125	Blazek		260		
012.04.21.07.010.00	8	Block		280		
987.9997.002	167	Coblentz	0.95	370		0.75
012.04.21.06.008.000	24	Gellings	0.62	270		
012.04.21.06.003.000	25	Gellings		270		
012.04.21.06.062.000	141	Hackstein		360		
012.04.21.06.021.000	73	Heritz	1.2			
010.04.20.01.004.000	30	Hintz	0.35	250		
Unknown	Unknown	Kolp		350		
012.04.21.06.035.000	7	Ludke	0.3			
940.9989.000	50	Penn			2.8**	
012.04.21.06.042.010	88	Nowag		340		
012.04.21.06.041.000	55	Schemeit	0.65			
012.04.21.07.019.000	76	Schingeck	0.38			
012.04.21.06.055.000	82	Swenson	0.87			
012.04.21.06.017.000	65	VandenBoom	0.41			
012.04.21.06.019.000	78	VandenBoom	0.51		0.33	
012.04.21.05.005.000	109	Vretenar		390		
938.9997.000	98	Whipple			0.25	
012.04.21.06.013.000	86	Williams	0.52	250		
012.04.21.05.022.000	68	Zamecnik	0.45			

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2001 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)
012.04.21.06.019.000	78	VandenBoom			0.33
012.04.21.07.016.000	35	Janikowski			0.36
012.04.21.06.030.000	62	Stroud	0.47		
012.04.21.06.064.000	45	Metz	0.32	250	
941.9997.000	42	Mateicka, Sr.	0.39	350	
941.9982.000	745	Lange	0.62		
012.04.21.05.021.000	26	Gellings	0.58		
012.04.21.06.042.000	89	Gardner	0.48	290	
012.04.21.06.048.000	46	Fleming	0.33	300	
010.04.20.01.031.000	1	Abramowski		260	

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2000 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>Chloro- methane</u> (µg/L)	<u>Ortho Xylene</u> (µg/L)	<u>1,2,4.Trim ethylbenz ene</u> (µg/L)
985.9996.000	117	Acker	3.2					
012.04.21.07.018.000	119	Anderson	0.49					
942.9998.000	69	Balisteri			0.56**			
939.9996.006	91	Berndt	0.47					
012.04.21.06.059.016	125	Blazek	0.35	250				
010.04.20.01.001.000	16	DeBack		280	0.13			
985.9999.000	135	Fredrickson	0.53	300				
012.04.21.06.042.000	89	Gardner	0.59	290				
012.04.21.06.004.000	803	Gellings	0.49	260				
939.9999.000	138	Grandlich	0.35					
012.04.21.06.042.000	140	Haasch		270				
936.9997.000	95	Hinkel	0.34					
010.04.20.01.031.000	1	Abramowski			0.25			
Unknown	Unknown	Kolp	0.31	300				
941.9997.000	42	Mateicka, Sr.	0.39	340				
010.04.20.01.020.000	44	Mente	0.99					
939.9996.005	165	Millin	0.47					
012.04.21.06.037.000	49	Olson	0.52		0.92**			
012.04.21.06.066.000	48	Olson	0.79	300				
012.04.21.05.002.000	102	Perdzock		260	0.33			
012.04.21.06.069.000	192	Prodoehl	0.37	420				
935.9994.002	114	Rynders					0.12	0.27
944.9998.000	107	Stick	0.36					
Surface Water			1.7					
938.9999.005	181	Tomczak	0.54					
012.04.21.06.019.000	78	VandenBoom	0.59			0.29		
938.9997.000	98	Whipple	0.36		0.51			

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

1999 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>Chloroform</u> (µg/L)	<u>Toluene</u> (µg/L)
010.04.20.01.001.000	90	Alex	1.7		0.44		
942.9998.000	69	Balisteri			0.32		
012.04.21.06.027.000	4	Barbian	9.2				
01204.21.07.011.000	5	Bedalov	0.37				
939.9996.006	91	Berndt	0.37				
012.04.21.07.010.00	8	Block	0.51				0.13
012.04.21.06.043.000	93	Buncich	0.42				
940.9997.000	14	Couillard	0.33				
010.04.20.01.001.000	16	DeBack	0.3				
010.04.20.01.005.000	70	Gaffney	0.37				
012.04.21.06.003.000	25	Gellings	1.2				
012.04.21.06.031.000	27	Harris	0.32				
012.04.21.06.021.00	73	Heritz	0.43				
936.9997.000	95	Hinkel	0.38				
012.04.21.06.013.000	86	Hubbard	0.46				
012.04.21.06.057.000	809	Jorgenson	0.51				
010.04.20.01.031.000	1	Abramowski			0.22		
938.9999.004	110	Kopp	0.42				
941.9982.000	38	Lange	0.36				
012.04.21.06.038.000	63	Langfeldt	0.5				
941.9997.000	42	Mateicka, Sr.	0.35				
012.04.21.06.066.000	48	Olson	0.32				
012.04.21.06.037.000	49	Olson	0.44		0.44		
940.9989.000	50	Penn	1.3		0.7**		
012.04.21.05.002.000	102	Perdzock			0.29		
010.04.20.01.013.000	53	Sandford	0.45				
012.04.21.05.009.000	104	Savenac	0.5				
012.04.21.07.019.000	76	Schingeck	0.41				
012.04.21.06.040.000	56	Schmid	0.36				
944.9998.000	107	Stick				0.26	
Trip Blank							0.2
012.04.21.06.019.000	78	VandenBoom	0.59				
938.9997.000	98	Whipple			0.35		

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

Continued – 1999 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>Chloroform</u> (µg/L)	<u>Toluene</u> (µg/L)
935. 9999.009	808	Woelbing	0.88				
012.04.21.05.022.000	68	Zamecnik					0.13

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

1998 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)
940.9997.000	14	Couillard	0.36		
892.9991.000	214	Diekow	0.78		
012.04.21.06.008.000	24	Gellings	0.72		
012.04.21.06.003.000	25	Gellings	0.35		
012.04.21.06.057.000	809	Jorgenson	0.4	250	
010.04.20.01.031.000	1	Abramowski			0.27
012.04.21.06.066.000	48	Olson	1.2	250	
012.04.21.06.037.000	49	Olson	0.37		

1997 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)	<u>1,1,1.Trichlor o.ethane</u> (µg/L)
012.04.21.07.016.000	35	Janikowski	0.38		0.094	
941.9996.000	39	Losey	0.3			0.06
010.04.20.01.020.000	44	Mente	1		0.13	
012.04.21.07.017.000	40	Zirzow			0.25	

1996 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichloro difluoro methane</u> (µg/L)
012.04.21.06.010.020	13	Carriveau		270	
012.04.21.06.048.000	46	Fleming, Sr.		280	
010.04.20.01.005.000	70	Gaffney	0.3		
941.9997.000	42	Mateicka, Sr.	0.52	310	0.16
010.04.20.01.003.000	87	Meyers	0.49		
012.04.21.06.046.000	67	Worman		260	

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

- Sampling locations
- VOCs Detected in Samples



325 West Vine Street / Milwaukee, WI 53212
Telephone (414) 263-2122 / Cellular (414) 687-0518
email: jw@jsacivil.com / <http://www.jsacivil.com>

○ Dichlorodifluoromethane
Detects



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email: jw@jsacivil.com / <http://www.jsacivil.com>