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January 9, 2019

Ms. Jennifer Dorman
DNR Service Center
2300 N DR Martin Luther King JR DR
Milwaukee, WI 53212

RECEIVED

JAN 15 2019

BY: JJ

**Re: Closure Request Status Update – Errata Pages
Redi Quick Dry Cleaners
9508 West Greenfield Avenue
West Allis, Wisconsin
BRRTS No. 02-41-000676**

Dear Ms. Dorman:

Please find the included errata pages to the Closure Request Status Update, Table A.1.b. The columns on the right extent of the original tables were missing due to a print range error.

If you have any questions, please contact me at (913) 317-3591 or mark.finney@Aptim.com.

Sincerely,

A handwritten signature in blue ink that reads 'MARK L FINNEY'.

Mark L Finney, PG
Project Manager
APTIM Environmental & Infrastructure, Inc.
Please Reply To: Mark L Finney
Phone: 913-317-3591
E-Mail Address: mark.finney@APTIM.com

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-2				Pilot Testing Program				Quarterly Performance Monitoring Program										
				Baseline 3/30/2009	3 Month Performance 6/24/2009 7/30/2009 8/30/2009			1Q 7/7/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018	
Detected VOCs	cis-1,2-Dichloroethene	µg/l	NR 140.10 Table 1 PAL 7 ES 70	28	NS	NS	NS	36	35	8.4	4.7	< 0.74	< 0.74	1.12	1.1	0.32	< 0.27	
	trans-1,2-Dichloroethene	µg/l		1.6	J	NS	NS	1.95	2.36	1.21	1.21	1.31	J	1.16	J	1.33	0.6	< 1.1
	Tetrachloroethene (PCE)	µg/l		< 0.5	NS	NS	NS	8.7	10.8	<	0.44	<	0.44	<	1.02	J	0.33	<
	Trichloroethene (TCE)	µg/l		1.37	J	NS	NS	2.62	2.91	<	0.47	<	0.47	<	0.33	<	0.33	<
	Vinyl Chloride	µg/l		1.79	NS	NS	NS	3.5	6.8	<	3.09	2.65	<	0.47	<	0.33	<	0.33
Field Measurements	Temperature	deg. C	--	10.67	NS	NS	NS	14.89	16.30	13.95	8.57	16.02	16.84	13.84	14.66	11.8	13.8	
	pH	--	--	7.11	NS	NS	NS	6.11	6.79	6.78	6.92	7.07	7.10	7.03	6.90	7.17	7.39	
	Dissolved Oxygen	mg/l	--	2.08	NS	NS	NS	0.25	0.03	0.30	0.18	0.73	0.17	0.28	7.69	0.43	3.84	
	Specific Conductivity	µs/cm	--	6574	NS	NS	NS	5107	4767	4307	4937	4999	4499	3861	3956	4249	102	
	ORP	mV	--	300.1	NS	NS	NS	-113	-151	-414	-83	-138	-257	-89	-125	-49.1	37	
Geochemical Parameters	TOC	µg/l	--	1,700	NS	NS	NS	400,000	170,000	170,000	91,000	NS	NS	NS	NS	NS	NS	
	Dissolved Iron	µg/l	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Nitrate/Nitrite	mg/l	--	0.1	J	NS	NS	0.1	0.1	<	0.1	<	0.1	NS	NS	NS	NS	
	Dissolved Sulfate	mg/l	--	156	NS	NS	NS	91.8	4.44	J	<	3.4	<	3.4	NS	NS	NS	
	Ethane	µg/l	--	NS	NS	NS	NS	4.2	895	<	5	<	20	<	0.5	<	10	
	Ethene	µg/l	--	NS	NS	NS	NS	6.6	2.54	J	6.5	J	<	20	0.75	J	<	
	Methane	µg/l	--	NS	NS	NS	NS	5.2	2.69	J	7.100	10,200	11,500	13,600	11,500	5,900	NS	

NOTES
 deg. C = degrees Celsius
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 mV = millivolts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-4				Pilot Testing Program				Quarterly Performance Monitoring Program															
				Baseline 3/30/2009	6/24/2009	3 Month Performance 7/30/2009 8/30/2009		1Q 7/7/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018						
Detected VOCs	NR 140.10 Table 1			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	PAL																						
	ES																						
	Parameter	Unit	Value																				
	Parameter	Unit	Value																				
cis-1,2-Dichloroethene	µg/l	7	70	NS	NS	NS	NS	1.93	J	22	24.8	36	35	23.2	10.1	5.6	0.73	J	<	3.6			
Tetrachloroethene (PCE)	µg/l	0.5	5	NS	NS	NS	NS	4.0		5.2	2.73	2.36	3.12	3.7	2.95	3.3	3.7	J	<	5.2			
Trichloroethene (TCE)	µg/l	0.5	5	NS	NS	NS	NS	<	0.39	1.23	0.74	0.54	1.87	1.6	1.15	1.38	1.2			1.3			
Vinyl Chloride	µg/l	0.02	0.2	NS	NS	NS	NS	<	0.19	0.62	1.42	1.04	2.41	2.24	<	0.18	<	0.18	<	0.18	<	0.17	
Field Measurements	Temperature	deg. C	--	--	NS	NS	NS	NS	17.02	17.01	9.14	3.65	19.34	13.82	6.25	11.61	7.3			13.6			
	pH	--	--	--	NS	NS	NS	NS	6.77	7.16	7.18	7.22	6.99	7.16	7.06	6.75	7.13			7.16			
	Dissolved Oxygen	mg/l	--	--	NS	NS	NS	NS	0.73	0.84	1.44	6.24	0.42	0.86	2.60	5.16	2.2			1.42			
	Specific Conductivity	µs/cm	--	--	NS	NS	NS	NS	730	672	662	700	734	780	720	620	711			610			
	ORP	mV	--	--	NS	NS	NS	NS	-129	10	-394	26	110	-249	133	70	225.9			43.9			
Geochemical Parameters	TOC	µg/l	--	--	NS	NS	NS	NS	550	J	2300	1200	NS	NS	NS	NS	NS			NS			
	Dissolved Nitrate/Nitrite	mg/l	--	--	NS	NS	NS	NS	0.51		0.13	J	0.14	J	0.52	NS	NS	NS	NS	NS			
	Dissolved Sulfate	mg/l	--	--	NS	NS	NS	NS	11.4		7.93	J	8.85	J	11.4	NS	NS	NS	NS	NS			
	Ethane	µg/l	--	--	NS	NS	NS	NS	<	1	<	1	<	1	NS	<	0.5	NS	NS	NS			
	Ethane	µg/l	--	--	NS	NS	NS	NS	<	1	<	10.3	<	1	NS	<	0.5	NS	NS	NS			
	Methane	µg/l	--	--	NS	NS	NS	NS	1.2	J	<	1	26.5	NS	31.2	NS	NS	NS	NS	NS			

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 ORP = oxidation-reduction potential
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 Red/Italic = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-8	Pilot Testing Program				Quarterly Performance Monitoring Program																			
	NR 140.10 Table 1	Baseline	3 Month Performance			1Q	2Q	3Q	4Q	5Q	6Q	7Q	8Q	9Q	10Q									
		PAL	3/30/2009	5/30/2009	6/30/2009	7/30/2009	7/7/2010	10/28/2010	1/27/2011	4/28/2011	8/7/2012	11/28/2012	2/27/2013	5/20/2013	3/30/2017	11/8/2018								
Detected VOCs	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	NS	930	24,300	11,300	202	J	26.7	<	0.74	0.75	J	1.22	NS	NS		
	Tetrachloroethene (PCE)	µg/l	0.5	5	< 0.5	NS	NS	NS	NS	7,300	86	88	44		<	4.4	<	0.44	0.33		0.33	NS	NS	
	Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	NS	NS	NS	NS	380	78	94	47		<	4.7	<	0.47	0.33		0.33	NS	NS	
	Vinyl Chloride	µg/l	0.02	0.2	< 0.2	NS	NS	NS	NS	16.5	J	420	1,960	350		<	10.9	<	1.47	0.95	<	0.93	NS	NS
Field Measurements	Temperature	deg. C	--	--	10.71	NS	NS	NS	NS	15.16	14.53	14.26	8.91		18.06	16.50	13.44	15.81			NS	NS		
	pH	--	--	--	7.27	NS	NS	NS	NS	6.02	6.39	6.25	6.41		6.66	6.69	6.57	6.38			NS	NS		
	Dissolved Oxygen	mg/l	--	--	1.44	NS	NS	NS	NS	0.33	0.01	0.42	0.29		0.54	0.19	0.35	8.51			NS	NS		
	Specific Conductivity	µs/cm	--	--	1868	NS	NS	NS	NS	5164	4102	4192	3996		4237	4012	4693	4567			NS	NS		
	ORP	mV	--	--	285.1	NS	NS	NS	NS	-126	-77	-417	-41		-106	-263	-52	-80			NS	NS		
Geochemical Parameters	TOC	µg/l	--	--	2,100	NS	NS	NS	NS	960,000	840,000	1,000,000	640,000		NS	NS	NS	NS			NS	NS		
	Dissolved Iron	µg/l	--	--	140	J	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS			NS	NS		
	Dissolved Nitrate/Nitrite	mg/l	--	--	< 0.1	NS	NS	NS	NS	0.14	J	0.1	0.1		NS	NS	NS	NS			NS	NS		
	Dissolved Sulfate	mg/l	--	--	93.5	NS	NS	NS	NS	<	3.4	4.29	J	11.8	<	NS	NS	NS	NS			NS	NS	
	Ethane	µg/l	--	--	NS	NS	NS	NS	NS	<	1	50.8	332	417	J	NS	NS	NS	NS			NS	NS	
	Ethene	µg/l	--	--	NS	NS	NS	NS	NS	<	1	1120	1.5	J	<	135	202	125	127			NS	NS	
	Methane	µg/l	--	--	NS	NS	NS	NS	NS	<	1	1120	1.5	J	<	0.5	1.4	2.17	<	10		NS	NS	
										29	<	1	3600	5620	5,450	10,100	8,300	5,820			NS	NS		

NOTES

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 µg/l = micrograms per liter
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 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ)
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-10					Pilot Testing Program				Quarterly Performance Monitoring Program									
					Baseline 3/30/2009	3 Month Performance			1Q 7/7/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018
Detected VOCs	NR 140.10 Table 1																	
	PAL		ES															
cis-1,2-Dichloroethene	µg/l	7	70	< 220	NS	NS	NS	8,700	138,000	181,000	3,500	J	51,000	5,800	31,300	1,120	1,010	196
trans-1,2-Dichloroethene	µg/l	20	100	< 305	NS	NS	NS	< 650	3,070	< 790	< 1580		< 395	< 395	< 175	< 175	104	83.7
Tetrachloroethene (PCE)	µg/l	0.5	5	33,000	NS	NS	NS	< 13,200	< 430	< 440	< 880	< 220	< 220	< 165	< 165	< 165	< 2.5	< 1.6
Trichloroethene (TCE)	µg/l	0.5	5	580	J	NS	NS	2,540	< 390	< 470	< 940	< 235	< 235	< 165	< 165	< 165	125	< 1.3
Vinyl Chloride	µg/l	0.02	0.2	< 100	NS	NS	NS	220	J	14,700	25,700	1,660	21,100	4,600	13,300	640	699	200
Field Measurements	Temperature	deg. C	--	--	9.33	NS	NS	NS	15.50	16.48	11.44	6.53	18.45	15.61	10.32	12.50	8.90	14.80
	pH	--	--	--	7.15	NS	NS	NS	6.48	6.60	6.33	6.87	6.54	6.79	6.79	6.86	7	6.99
	Dissolved Oxygen	mg/l	--	--	0.51	NS	NS	NS	0.28	0.10	0.37	0.31	0.57	0.18	0.25	8.51	0.37	0.50
	Specific Conductivity	µs/cm	--	--	3575	NS	NS	NS	3326	4992	5362	3936	4281	2794	3340	2432	2786	3450
	ORP	mV	--	--	294	NS	NS	NS	-136	-84	-413	-83	-95	-262	-70	-151	-137.5	-64
Geochemical Parameters	TOC	µg/l	--	--	2,800	NS	NS	NS	120,000	320,000	390,000	82,000	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.5	NS	NS	NS	< 0.1	< 0.1	< 0.1	< 0.1	NS	NS	NS	NS	NS	NS
	Dissolved Sulfate	mg/l	--	--	103	NS	NS	NS	4.65	J	< 3.4	< 3.4	< 3.4	NS	NS	NS	NS	NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	78	299	2630	4210	10300	13,500	10,100	4,910	NS	NS
	Ethene	µg/l	--	--	NS	NS	NS	NS	2.5	J	4670	< 10	< 20	< 0.5	5	3.91	10	NS
	Methane	µg/l	--	--	NS	NS	NS	NS	62	< 1	4620	7870	5,600	10,300	10,500	7,380	NS	NS

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 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
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Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-11				Pilot Testing Program				Quarterly Performance Monitoring Program									
				Baseline 3/30/2009	3 Month Performance			1Q 7/6/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018
Detected VOCs	NR 140.10 Table 1																
	PAL																
	ES																
cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	< 0.78	< 0.78	< 0.74	< 0.74	< 0.74	< 0.74	< 0.38	< 0.38	< 0.26	< 0.27
trans-1,2-Dichloroethene	µg/l	20	100	< 0.81	NS	NS	NS	< 1.3	< 1.3	< 0.79	< 0.79	< 0.79	< 0.79	< 0.35	< 0.35	< 0.26	< 0.33
Tetrachloroethene (PCE)	µg/l	0.5	5	< 0.5	NS	NS	NS	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	< 0.44	< 0.33	< 0.33	< 0.5	< 0.26
Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	NS	NS	NS	< 0.39	< 0.39	< 0.47	< 0.47	< 0.47	< 0.47	< 0.33	< 0.33	< 0.33	< 0.17
Field Measurements	Temperature	deg. C	--	8.43	NS	NS	NS	15.07	16.70	11.57	5.15	17.74	15.64	10.23	11.29	9	14.3
	pH	--	--	7.00	NS	NS	NS	6.45	6.99	6.92	7.00	6.93	6.89	6.97	6.82	6.86	7.03
	Dissolved Oxygen	mg/l	--	0.89	NS	NS	NS	0.47	0.53	2.21	3.22	0.77	0.58	3.45	3.07	0.83	0.69
	Specific Conductivity	µs/cm	--	3446	NS	NS	NS	3567	3483	3202	3349	3388	3338	3226	3428	3428	3290
	ORP	mV	--	295.4	NS	NS	NS	-139	107	-370	14	81	-211	89	126	228.1	56.3
Geochemical Parameters	TOC	µg/l	--	3,000	NS	NS	NS	2,000	1400	1100	NS	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Nitrate/Nitrite	mg/l	--	< 0.1	NS	NS	NS	< 0.1	0.1	J	0.15	J	< 0.1	NS	NS	NS	NS
	Dissolved Sulfate	mg/l	--	138	NS	NS	NS	193	172	127	168	NS	NS	NS	NS	NS	NS
	Ethane	µg/l	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS
	Ethene	µg/l	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS
	Methane	µg/l	--	NS	NS	NS	NS	< 1	< 1	1.4	J	2.6	J	NS	NS	NS	NS

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Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-12	Pilot Testing Program				Quarterly Performance Monitoring Program													
	Detected VOCs	Unit	NR 140.10 Table 1		Baseline	3 Month Performance			1Q	2Q	3Q	4Q	5Q	6Q	7Q	8Q	9Q	10Q
			PAL	ES	3/30/2009	6/24/2009	7/28/2009	8/26/2009	7/6/2010	10/28/2010	1/28/2011	4/28/2011	8/7/2012	11/29/2012	2/27/2013	5/20/2013	3/30/2017	11/8/2018
Detected VOCs	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	< 34	< 0.68	< 0.68	1,200 J	75,000	98,000	< 61,000	25,200	16,400	15,200	17,200	2.4	43.3
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	< 30.5	< 0.61	< 0.61	650	1,290	940 J	< 395	< 395	< 395	< 175	< 70	8.4	3.6 J
	Tetrachloroethene (PCE)	µg/l	0.5	5	2.1	25.5 J	4.8	4.1	21,700	14,100	7,000	< 220	< 220	< 220	< 165	< 66	< 0.5	0.78 J
	Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	< 19.5	0.44 J	< 0.47 J	235 J	740	700	J	< 235	< 235	< 165	< 66	< 0.33	0.28 J
	Vinyl Chloride	µg/l	0.02	0.2	< 95	< 95	280	280	95	95	280	J	320	< 90	110 J	192	1.4	1.3
Field Measurements	Temperature	deg. C	--	--	11.35	18.53	15.85	13.97	16.31	13.85	12.70	8.19	16.43	12.24	11.96	14.61	11.70	14.40
	pH	--	--	--	7.38	6.60	5.82	6.37	6.11	6.71	6.57	6.63	6.63	6.78	6.81	6.65	6.96	7.05
	Dissolved Oxygen	mg/l	--	--	1.78	1.43	3.14	0.52	0.42	0.07	0.26	0.40	0.48	0.73	0.40	7.13	0.70	0.54
	Specific Conductivity	µs/cm	--	--	1008	1114	1147	1363	3461	2446	2667	2763	2603	2513	2281	2129	1620	1320
	ORP	mV	--	--	274.1	-15.3	-152.7	-167	-153	-112	-160	-71	-106	-266	-80	-120	-131	-23
Geochemical Parameters	TOC	µg/l	--	--	2,200	22,000	230,000	280	830,000	510,000	580,000	430,000	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	--	< 60	2,930	2.7	< 5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.1 J	1.01	< 0.1	0.1 J	0.14 J	< 0.1	0.10 J	< 0.1	NS	NS	NS	NS	NS	NS
	Dissolved Sulfate	mg/l	--	--	92.0	76.7	7.68 J	< 3.4	4.66 J	4.07 J	< 3.4	21.3	NS	NS	NS	NS	NS	NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	< 1	2.0 J	< 10	20.1 J	1.5	5.3	3.17	5.61	NS	NS
	Ethene	µg/l	--	--	NS	NS	NS	NS	< 1	< 1.0	< 10	< 20.0	< 0.5	< 0.5	< 0.5	< 5.0	NS	NS
	Methane	µg/l	--	--	NS	NS	NS	NS	1150	3660	5420	4280	6,380	12,200	5,780	4,420	NS	NS
	Acetic Acid	mg/l	--	--	NS	46.00	190	210.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Butyric Acid	mg/l	--	--	NS	5.80	30	32.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Formic Acid	mg/l	--	--	NS	2.40	18	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Hexanoic Acid	mg/l	--	--	NS	1.20	< 0.10	< 0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	i-Hexanoic Acid	mg/l	--	--	NS	< 0.1	< 0.10	< 0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	i-Pentanoic Acid	mg/l	--	--	NS	0.23	0.920	0.880	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Lactic Acid	mg/l	--	--	NS	< 1.00	< 10.0	3.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Pentanoic Acid	mg/l	--	--	NS	0.54	2.50	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Propionic Acid	mg/l	--	--	NS	74.00	190.0	140.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Pyruvic Acid	mg/l	--	--	NS	0.77	3.10	2.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

NOTES
 deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = millivolts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-13					Pilot Testing Program				Quarterly Performance Monitoring Program									
					Baseline 3/30/2009	3 Month Performance			1Q	2Q	3Q	4Q	5Q	6Q	7Q	8Q	9Q	10Q
					5/30/2009	6/30/2009	7/30/2009	7/6/2010	10/28/2010	1/27/2011	4/28/2011	8/7/2012	11/28/2012	2/27/2013	5/20/2013	3/30/2017	11/8/2018	
Detected VOCs	NR 140.10 Table 1																	
	PAL																	
	ES																	
Detected VOCs	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	< 0.78	< 0.78	< 0.74	< 0.74	< 0.74	NS	NS	NS	< 0.26	< 0.27
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	NS	NS	NS	< 1.3	< 1.3	< 0.79	< 0.79	< 0.79	NS	NS	NS	< 0.26	< 1.10
	Tetrachloroethene (PCE)	µg/l	0.5	5	< 0.5	NS	NS	NS	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	NS	NS	NS	< 0.50	< 0.33
	Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	NS	NS	NS	< 0.39	< 0.39	< 0.47	< 0.47	< 0.47	NS	NS	NS	< 0.03	< 0.26
Field Measurements	Temperature	deg. C	--	--	10.27	NS	NS	NS	13.61	13.86	12.01	6.82	13.68	NS	NS	NS	-11	13.9
	pH	--	--	--	7.40	NS	NS	NS	7.03	7.42	7.26	7.62	7.29	NS	NS	NS	7.12	7.10
	Dissolved Oxygen	mg/l	--	--	1.94	NS	NS	NS	2.33	0.93	2.88	8.33	0.48	NS	NS	NS	0.41	0.88
	Specific Conductivity	µs/cm	--	--	810	NS	NS	NS	793	760	800	609	879	NS	NS	NS	1188	3220
	ORP	mV	--	--	280.3	NS	NS	NS	-157	-12	-352	19	-39	NS	NS	NS	-49.5	42.6
Geochemical Parameters	TOC	µg/l	--	--	3,500	NS	NS	NS	5200	6200	3900	NS	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.37	NS	NS	NS	1.43	0.27	J	J <	0.1	NS	NS	NS	NS	NS
	Dissolved Sulfate	mg/l	--	--	33.0	NS	NS	NS	27.9	23.7	33.0	8.33	J	NS	NS	NS	NS	NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS
	Ethene	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS
	Methane	µg/l	--	--	NS	NS	NS	NS	< 1	1.8	J	2.3	J	NS	NS	NS	NS	NS

NOTES

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 µg/l = micrograms per liter
 mV = millivolts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
 J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-14			Pilot Testing Program				Quarterly Performance Monitoring Program										
			Baseline 3/30/2009	3 Month Performance			1Q 7/6/2010	2Q 10/28/2010	3Q 1/26/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018	
Detected VOCs	NR 140.10 Table 1																
		PAL	ES														
cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	< 34	45 J	94	2,320	18,600	11,700	10,200	360	490	510	580	5.9	0.94 J
trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	< 30.5	NS	6.1	65	550	183 J	87	79	46	53	55	6.3	1.2 J
Tetrachloroethene (PCE)	µg/l	0.5	5	1.87	3300	550	208	2,040	98	44	44	44	4.4	3.3	3.3	0.5	0.33
Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	< 19.5	<19.5	4.1 J	174	78	47	47	47	4.7	3.3	3.6	0.33	0.28
Vinyl Chloride	µg/l	0.02	0.2	< 0.2	< 10	<10	2.2 J	14.5 J	164	113	202	179	162	172	211	1.6	0.28 J
Field Measurements	Temperature	deg. C	--	11.3	21.54	16.43	15.53	16.44	15.40	12.75	6.88	17.12	14.84	10.72	12.46	9.6	13.7
	pH	--	--	7.39	5.9	5.88	6.18	5.97	6.42	6.42	6.51	6.43	6.40	6.37	6.30	6.58	7.01
	Dissolved Oxygen	mg/l	--	1.74	2.44	3.23	0.96	0.40	0.04	0.31	0.27	0.55	0.21	0.35	5.40	0.51	0.39
	Specific Conductivity	µs/cm	--	1020	3263	3200	3197	5207	3600	2907	2807	2964	3124	3144	3449	4122	541
	ORP	mV	--	268.2	40.1	-51.9	-72	-133	-90	-161	-44	-70	-257	1	-61	-60.9	-20.3
Geochemical Parameters	TOC	µg/l	--	2,400	22,000	1,200,000	810	1,900,000	1,100,000	680,000	410,000	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	< 60	5030	2.8	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Nitrate/Nitrite	mg/l	--	0.1 J	2.47	0.1 J	0.1 J	0.14 J	0.1	0.12 J	0.1	NS	NS	NS	NS	NS	NS
	Sulfate	mg/l	--	82.5	35.2	35.4	3.4	22.4	5.12 J	3.76 J	3.4	NS	NS	NS	NS	NS	NS
	Ethane	µg/l	--	NS	NS	NS	NS	1	5	1.1 J	20	179	146	104	139	NS	NS
	Ethene	µg/l	--	NS	NS	NS	NS	1.1 J	5	1	20	10	0.5	0.5	10	NS	NS
	Methane	µg/l	--	NS	NS	NS	NS	2,520	3920	9330	8580	7,240	9,910	8,290	7,850	NS	NS
	Acetic Acid	mg/l	--	NS	380	280.0	320	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Butyric Acid	mg/l	--	NS	42	51.0	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Formic Acid	mg/l	--	NS	18	11.0	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Hexanoic Acid	mg/l	--	NS	7.4	<0.10	9.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	i-Hexanoic Acid	mg/l	--	NS	<1	<0.10	0.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	i-Pentanoic Acid	mg/l	--	NS	2.2	<0.70	1.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Lactic Acid	mg/l	--	NS	52	35.0	3.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentanoic Acid	mg/l	--	NS	4.6	8.10	7.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Propionic Acid	mg/l	--	NS	760	590.0	680	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Pyruvic Acid	mg/l	--	NS	10	5.80	6.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

NOTES

deg. C = degrees Celsius
 mg/l = milligrams per liter
 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = millivolts

ORP = oxidation-reduction potential

TOC = Total Organic Carbon

J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

NS = not sampled

Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance

Blue/italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

MW-21				Pilot Testing Program				Quarterly Performance Monitoring Program									
				Baseline 3/30/2009	5/30/2009	3 Month Performance 6/30/2009 7/30/2009		1Q 7/6/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018
Detected VOCs	NR 140.10 Table 1																
			PAL	ES													
	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	NS	< 0.74	NS	NS	NS	< 0.26	< 0.27		
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	NS	NS	NS	NS	< 0.79	NS	NS	NS	< 0.26	< 1.1		
	Tetrachloroethene (PCE)	µg/l	0.5	5	< 0.5	NS	NS	NS	NS	< 0.44	NS	NS	NS	< 0.5	< 0.33		
Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	NS	NS	NS	NS	< 0.47	NS	NS	NS	< 0.33	< 0.26			
Field Measurements	Temperature	deg. C	--	--	7.43	NS	NS	NS	NS	16.37	NS	NS	NS	8.6	15.1		
	pH	--	--	--	6.95	NS	NS	NS	NS	6.89	NS	NS	NS	6.85	6.96		
	Dissolved Oxygen	mg/l	--	--	0.3	NS	NS	NS	NS	0.26	NS	NS	NS	0.98	0.49		
	Specific Conductivity	µs/cm	--	--	4632	NS	NS	NS	NS	4736	NS	NS	NS	4020	5060		
	ORP	mV	--	--	283.2	NS	NS	NS	NS	98	NS	NS	NS	181.9	40.8		
Geochemical Parameters	TOC	µg/l	--	--	3,600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Ammonia as N	mg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Dissolved Iron	µg/l	--	--	< 0.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Dissolved Manganese	µg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Total Alkalinity (CaCO ₃)	mg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Dissolved Nitrate/Nitrite	mg/l	--	--	< 0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Dissolved Sulfate	mg/l	--	--	343.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Ethane	µg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Ethene	µg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Methane	µg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Acetic Acid	mg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Butyric Acid	mg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	Lactic Acid	mg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
Propionic Acid	mg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
Pyruvic Acid	mg/l	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			

NOTES

deg. C = degrees Celsius
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 µs/cm = micro siemens per centimeter
 µg/l = micrograms per liter
 mV = milli-volts
 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon

J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

NS = not sampled

Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance

Blue/italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

PZ-10				Pilot Testing Program				Quarterly Performance Monitoring Program														
				Baseline 3/30/2009	3 Month Performance			1Q 7/7/2010	2Q 10/28/2010	3Q 1/27/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018					
Detected VOCs			NR 140.10 Table 1 PAL	ES																		
	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	< 0.78	< 0.78	< 0.76	J	1.71	J	< 0.74	< 0.74	< 0.86	J	< 0.38	< 0.26	< 0.27	
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	NS	NS	NS	< 1.3	< 1.3	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.35	< 0.35	< 0.35	< 0.26	< 1.1	
	Tetrachloroethene (PCE)	µg/l	0.5	5	19.4	NS	NS	NS	13	17.9	8.2	5.0	4.0	4.9	9.8	8.7	13.6	13.6	13.6	13.6	13.6	12.8
	Trichloroethene (TCE)	µg/l	0.5	5	< 0.47	NS	NS	NS	< 0.39	< 0.39	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.33	< 0.33	< 0.33	< 0.33	0.48	0.43J
Vinyl Chloride	µg/l	0.02	0.2	< 0.2	NS	NS	NS	< 0.19	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17
Field Measurements	Temperature	deg. C	--	--	10.91	NS	NS	NS	14.7	14.37	12.45	8.40	15.23	13.34	12.64	14.19	11.00	14.40	14.40	14.40	14.40	14.40
	pH		--	--	7.64	NS	NS	NS	7.33	7.75	7.67	7.75	7.57	7.86	7.72	7.40	7.56	7.69	7.69	7.69	7.69	7.69
	Dissolved Oxygen	mg/l	--	--	2.85	NS	NS	NS	2.58	2.78	2.93	6.30	2.10	1.51	5.85	7.89	4.96	4.81	4.81	4.81	4.81	4.81
	Specific Conductivity	µs/cm	--	--	779	NS	NS	NS	847	767	762	801	795	752	816	792	782	790	790	790	790	790
	ORP	mV	--	--	287	NS	NS	NS	-125	71	-344	19	107	-262	55	99	239.9	239.9	239.9	239.9	239.9	239.9
Geochemical Parameters	TOC	µg/l	--	--	3,800	NS	NS	NS	1900	3100	3100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.1	J	NS	NS	0.22	J	0.15	J	0.1	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Dissolved Sulfate	mg/l	--	--	37.0	NS	NS	NS	38.2	NS	29.5	32.8	34.9	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Ethane	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Ethene	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Methane	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	2.8	J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES

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 ORP = oxidation-reduction potential
 TOC = Total Organic Carbon
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 NS = not sampled
 Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
 Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance

Table A.1.b Groundwater Analytical Table

Summary of Groundwater Data (Detected Compounds Only)
 Redi-Quick Dry Cleaners
 9508 West Greenfield Avenue
 West Allis, Wisconsin

PZ-20			Pilot Testing Program				Quarterly Performance Monitoring Program														
			Baseline 3/30/2009	3 Month Performance			1Q 7/6/2010	2Q 10/28/2010	3Q 1/26/2011	4Q 4/28/2011	5Q 8/7/2012	6Q 11/28/2012	7Q 2/27/2013	8Q 5/20/2013	9Q 3/30/2017	10Q 11/8/2018					
Detected VOCs	NR 140.10 Table 1																				
	PAL																				
	ES																				
	cis-1,2-Dichloroethene	µg/l	7	70	< 0.44	NS	NS	NS	< 0.78	< 1.37	J	3.8	< 2.05	J	10.2	< 14.3	< 5.0	< 10.3	26.3	15.3	
	trans-1,2-Dichloroethene	µg/l	20	100	< 0.61	NS	NS	NS	< 1.3	< 1.3	< 0.79	< 0.79	< 0.79	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	1.3	1.1	
Tetrachloroethene (PCE)	µg/l	0.5	5	147	NS	NS	NS	83	43	22	12	17.5	17.5	19.8	5.5	8.6	21.9	29.8	29.8	29.8	
Trichloroethene (TCE)	µg/l	0.5	5	1.64	NS	NS	NS	1.53	1.76	1.44	J	1.08	J	3.02	3.8	1.62	2.44	7.6	9.2	9.2	
Vinyl Chloride	µg/l	0.02	0.2	<0.2	NS	NS	NS	< 0.19	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17
Field Measurements	Temperature	deg. C	--	--	10.61	NS	NS	NS	14.58	13.05	12.47	8.57	14.32	12.03	11.47	14.03	12.90	14.00	14.00	14.00	
	pH	--	--	--	7.67	NS	NS	NS	7.34	7.62	7.60	7.65	7.54	7.70	7.58	7.51	7.52	7.62	7.62	7.62	
	Dissolved Oxygen	mg/l	--	--	2.49	NS	NS	NS	4.39	2.21	2.21	4.07	4.41	5.65	1.38	5.86	3.49	2.88	2.88	2.88	
	Specific Conductivity	µs/cm	--	--	849	NS	NS	NS	888	833	816	867	848	817	898	843	861	890	890	890	
	ORP	mV	--	--	285.8	NS	NS	NS	-140	28	-138	16	116	-218	141	121	225	-57.2	-57.2	-57.2	
Geochemical Parameters	TOC	µg/l	--	--	1,900	NS	NS	NS	1400	1100	1620	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Iron	µg/l	--	--	< 60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Dissolved Nitrate/Nitrite	mg/l	--	--	0.1	J	NS	NS	0.12	J	< 0.1	0.14	J	< 0.1	NS	NS	NS	NS	NS	NS	
	Dissolved Sulfate	mg/l	--	--	41.4	NS	NS	NS	40.7	35.8	36.9	34.5	NS	NS	NS	NS	NS	NS	NS	NS	
	Ethane	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Ethene	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	Methane	µg/l	--	--	NS	NS	NS	NS	< 1	< 1	< 1	NS	NS	NS	NS	NS	NS	NS	NS	NS	
						NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES

- deg. C = degrees Celsius
- mg/l = milligrams per liter
- µs/cm = micro siemens per centimeter
- µg/l = micrograms per liter
- mV = millivolts
- ORP = oxidation-reduction potential
- TOC = Total Organic Carbon
- J = results reported between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
- NS = not sampled
- Red/Bold = ch. NR 140 Wis. Adm. Code Enforcement Standard (ES) exceedance
- Blue/Italic = ch. NR 140 Wis. Adm. Code Preventive Action Limit (PAL) exceedance