



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Gloria L. McCutcheon, Regional Director

Waukesha Service Center
141 NW Barstow St
Room 180
Waukesha, Wisconsin 53188
Telephone 262-574-2100
FAX 262-574-2117

April 29, 2010

Ms. Michelle Smith - City of Whitewater Clerk
City Of Whitewater
P.O. Box 178
Whitewater, WI 53190

PWSID#: 26500562
Region: Southeast Region
County: Walworth
File Code: 3300

Subject: 2010 WI-DNR Sanitary Survey Inspection Report

Dear Ms. Smith:

The purpose of a sanitary survey is to evaluate the system's source, facilities, equipment, operation, maintenance, and management as they relate to providing safe drinking water. The sanitary survey is also an opportunity to update the Department's records, provide technical assistance, and identify potential risks that may adversely affect drinking water quality.

On April 4, 2010, Thanintr Ratarasarn conducted a sanitary survey of your water system, Whitewater Waterworks. During the sanitary survey, Rick Lien and were present. At the completion of the survey, you were briefed on the preliminary findings. This report outlines the final findings, discusses problems that need to be addressed, and timelines for corrective action where appropriate.

A plan for corrective action, including a work schedule or completion of corrective action for all deficiencies identified below, must be completed within 45 days of the receipt of this letter, or by June 15, 2010. Failure to submit the corrective action plan or complete the corrective action within 45 days will result in enforcement action. Depending on the type of corrective action you employ, you may need to obtain prior approval and submit plans to the Department.

Significant Deficiencies

During the course of the sanitary survey, no significant deficiencies were identified. Significant deficiencies indicate noncompliance with one or more Wisconsin Administrative Codes and/or represent an immediate health risk to consumers. As such, the deficiencies listed below should be corrected as soon as possible.

Deficiencies

During the course of the sanitary survey, one deficiency was identified. Deficiencies are problems in the drinking water system that have the potential to cause serious health risks or represent long-term health risks to consumers. These deficiencies may indicate noncompliance with one or more Wisconsin Administrative Codes. Corrective action should be completed for these deficiencies as soon as possible. If there were any significant deficiencies identified above, those should undergo corrective action first.

Deficiency	Compliance Due Date	Code Citation
The pump discharge pipe is not adequately protected from corrosion.	June 30, 2010	NR 811.32(6)



Discussion and Schedule for Correction of Deficiencies:

- During the inspection, it was noted that some of the piping was starting to show signs of rust. Per NR 811.32(6), piping must be painted to protect from external corrosion and painted with a specific color. This requirement shall be completed no later than **December 31, 2010**.

Recommendations

During the course of the sanitary survey, no extra recommendations were identified in addition to the recommendations from the 2008 Annual Inspection. Recommendations are problems in the water system that hinder your public water system from consistently providing safe drinking water to consumers.

Water System Security

We recommend that you conduct a daily security check of your entire drinking water system to insure doors are locked and windows secured.

System Summary Information

A water system summary is attached. Please review for accuracy. If there are changes that need to be made, contact Thanintr Ratarasarn at 262-574-2134.

Required Action

Please respond within 45 days of receipt of this letter or **June 15, 2010** with notification that all significant deficiencies and deficiencies have been corrected, or a plan for correcting the significant deficiencies and deficiencies identified above.

Capacity Development Evaluation

In the future, the sanitary survey shall also serve as an evaluation of other capacities/sections of your water system. In addition to the technical capacity of your water system, the managerial and financial capacity of your water system shall also be inspected and reviewed for compliance with forthcoming laws.

The next sanitary survey of your system is scheduled to take place in 2013. You and your water system will be contacted prior to the survey to schedule a date that is convenient for you.

I would like to thank Rick Lien and the Whitewater Waterworks for their cooperation and tour of the facilities on the date of my visit. If you have any questions, please do not hesitate to contact me at 262-574-2134, or by e-mail at Thanintr.Ratarasarn@wisconsin.gov.

Sincerely,



Thanintr T. Ratarasarn, P.E.
Drinking Water Engineer

Cc: Rhonda Volz — Regional Drinking Water & Groundwater Supervisor
DG Southeast Region
DG/2 – Drinking Water and Groundwater - Madison

Water System Summary Information

System ID: 26500562

System Name: WHITEWATER WATERWORKS

County: Walworth

Type: Municipal Community

Basin: Rock River (lower)

Population: 14000

Service Connections: 0

Owner: WHITEWATER WATER UTILITY

PO Box 178

Whitewater, WI 53190

(262) 473-0543

Date Security VA Complete:

Date ERP Complete:

Date ERP Last Exercised/Updated:

Emergency Phone: (262) 473-0543

Emergency Fax: (262) 473-0548

Emergency E-mail:

Certified Operators

Name	Lic. #	Expires	Phone/Fax/E-mail	Address 1	Address 2	City, State, Zip
ROBERT BONK	19092	01/01/2011	(262) 473-3627	117 N HARRIS ST.		WHITEWATER, WI 53190
RICHARD FERO	05337	02/01/2003	() -	526 W WHITEWATER ST		WHITEWATER, WI 53190
THEODORE KRAUS	33935	05/01/2013	(262) 473-0543ww302@yahoo.com	143 S MAPLE LN		WHITEWATER, WI 53190
RICHARD LIEN	16596	08/01/2012	(262) 473-0543rlien@ci.whitewater.wi.us	W4783 YANDRY ROAD		WHITEWATER, WI 53190
LAUREN MILLER	32706	11/01/2010	(262) 473-05432624730548	N1705 FINDLAY RD		WHITEWATER, WI 53190
LOREN VANT	11158	04/01/2009	(414) 473-5069	217 JEFFERSON ST		WHITEWATER, WI 53190

Affiliations

Name	Affiliation	Start Date	End Date	Primary?	Phone
MR. BOB BONK	SAMPLER	02/20/2001		Y	262-473-0543
MR. RICK LIEN	PLAN_CON	05/11/2006		Y	262-473-0543
WHITEWATER WATER UTILITY	OWNER	06/22/1995		Y	262-473-0543
MR. RICK LIEN	MANAGER	08/06/2001		Y	262-473-0543
MR. RICK LIEN	EMERGENCY	11/14/2001		Y	262-473-0543
MR. THANINTR RATARASARN	DNR_REP	05/18/2001		Y	262-574-2134
MR. BOB BONK	PLAN_CON	06/02/2006		N	262-473-0543
SMITH, MICHELE - CITY OF WHITEWATER, CLERK	PLAN_CON	07/11/2008		N	262-473-0500 x202

Entry Points and Sources of Water (Basic Data)

Source ID	Name	WUWN	Status	Type	Source	Depth	Cased	Grouted
5		BH192	Active	ENTRY PT/SOURCE	Ground Water Source	657	335	160
6	WELL 6	BH193	Active	ENTRY PT/SOURCE	Ground Water Source	1019	225.2	225.2
7		BH194	Active	ENTRY PT/SOURCE	Ground Water Source	898	562	175
8		BH195	Active	ENTRY PT/SOURCE	Ground Water Source	800	35	350
9		LJ862	Active	ENTRY PT/SOURCE	Ground Water Source	950	270	270

Entry Points and Sources of Water (Misc. Data)

Source ID	PLSS	Lat./Long.	Pump Cap.	Pump Type	Lube	Aux. Power?
5	T4, R15E, S4, Q-NW QQ-NW	42.84014N x 88.73424W	900	Submersible		Yes
6	T4, R15E, S5, Q-NW QQ-NE	42.83894N x 88.75083W	1350	Vertical_Turbine	Water	Yes
7	T4, R15E, S4, Q-NW QQ-NW	42.84261N x 88.73595W	1000	Submersible		Unknown
8	T4, R15E, S3, Q-NW QQ-SE	42.83758N x 88.71165W	1000	Vertical_Turbine	Water	Yes
9	T4, R15E, S7, Q-NE QQ-SW	42.82143N x 88.76297W	1000	Vertical_Turbine	Water	Yes

Storage

ID/Location	Type	Vol. (gal)	Firm Pumping Capacity (gpm)	Height to Overflow (ft.)	Overflow Elev. (sea-level, ft.)	Aux. Power?	Mfg.	Model
Wood & Cravath Street	ELEVATED TANK	500000				Unknown		
Starin Park	ELEVATED TANK	175000				Unknown		

Booster Stations

ID/Location	Type	Firm Pumping Capacity (gpm)	Aux. Power?
308 Fremont Street	ABOVE GROUND	1000	Yes

System Interconnects

ID/Location	Type	Capacity (gpm)	Metered?	Chemical Injection Capable?
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None

Treatment Summary Data

Source ID	Type	Description	Begin	End	Objective(s)	Pump Model	Cap.	Stroke %	Speed %	Sol. Tank Cap.	Dil. Ratio	Comments
5	344	Filtration, Pressure Sand	11/08/1999		Iron Removal							
5	380	Fluoridation	01/01/2002		Other							
5	421	Hypochlorination, Post	11/08/1999		Disinfection							
6	344	Filtration, Pressure Sand	11/08/1999		Iron Removal							
6	380	Fluoridation	08/20/2002		Other							
6	421	Hypochlorination, Post	11/08/1999		Disinfection							
7	344	Filtration, Pressure Sand	11/08/1999		Iron Removal							
7	380	Fluoridation	01/10/2002		Other							
7	421	Hypochlorination, Post	11/08/1999		Disinfection							
8	344	Filtration, Pressure Sand	11/08/1999		Iron Removal							
8	380	Fluoridation	01/01/2002		Other							
8	421	Hypochlorination, Post	11/08/1999		Disinfection							
9	344	Filtration, Pressure Sand	11/08/1999		Iron Removal							
9	380	Fluoridation	01/01/2002		Other							
9	421	Hypochlorination, Post	11/08/1999		Disinfection							

System Evaluation Summary

Inspector/Reviewer	Date	Report Date	Type	Agency	Response Due	Response Recd
RATARASARN, THANINTR	04/06/2010	04/29/2010	SURVEY	DNR		
RATARASARN, THANINTR	06/19/2008	06/27/2008	ANNUAL	DNR		
RATARASARN, THANINTR	05/22/2007	06/28/2007	SURVEY	DNR		
RATARASARN, THANINTR	06/27/2006	06/30/2006	ANNUAL	DNR		
RATARASARN, THANINTR	05/18/2005	06/30/2005	ANNUAL	DNR		
RATARASARN, THANINTR	06/11/2004	06/30/2004	ANNUAL	DNR		
RATARASARN, THANINTR	05/15/2003	06/13/2003	ANNUAL	DNR		
RATARASARN, THANINTR	05/07/2002	06/07/2002	SURVEY	DNR		

Inspector/Reviewer	Date	Report Date	Type	Agency	Response Due	Response Recd
THANINTR						
STINSON, GORDON	01/13/1999	04/15/1999	ANNUAL	DNR		
WOOD, PETER	08/27/1997	08/29/1997	ANNUAL	DNR		
WOOD, PETER	08/08/1996	08/15/1996	ANNUAL	DNR		
WOOD, PETER	08/18/1995	08/31/1995	SURVEY	DNR		
WOOD, PETER	08/23/1994		ANNUAL	DNR		
	12/17/1991		SURVEY	DNR		
	02/20/1991		ANNUAL	DNR		

Bacteriological Sampling History

Year	Distribution Safe	Distribution Unsafe	Confirmed Unsafe	Missed Samples	Raw Safe	Raw Unsafe	Fecal Positive?
2010	60			0	5		N
2009	180			0	20		N
2008	180			0	20		N
2007	180	1		0	20		N
2006	180			0	20		N
2005	180			0	20		N
2004	180			0	19	2	N

Chemical Sampling History

Year	Sample Group	Source ID	Samples Taken	Missed Samples	MCL Violations
2010	VOC	8	1	0	0
2010	VOC	6	1	0	0
2010	FLUORIDE		4	0	0
2010	VOC	9	1	0	0
2010	NITRATE	7	1	0	0
2010	NITRATE	9	1	0	0
2010	VOC	7	1	0	0
2010	NITRATE	8	1	0	0
2010	IOC	5	1	0	0
2010	IOC	9	1	0	0
2010	VOC	5	1	0	0
2010	NITRATE	5	1	0	0
2010	NITRATE	6	1	0	0
2009	VOC	8	4	0	0
2009	VOC		2	0	0
2009	FLUORIDE		12	0	0
2009	HAA5		5	0	0
2009	ARSENIC	9	1	0	0
2009	VOC	9	1	0	0
2009	TTHM		5	0	0
2009	NITRATE	7	1	0	0
2009	NITRATE	9	1	0	0
2009	VOC	7	1	0	0
2009	NITRATE	8	1	0	0
2009	IOC	5	4	0	0
2009	IOC	9	4	0	0
2009	RAD	9	1	0	0

Year	Sample Group	Source ID	Samples Taken	Missed Samples	MCL Violations
2009	NITRATE	5	1	0	0
2009	NITRATE	6	1	0	0
2008	RAD	8	1	0	0
2008	SOC	7	1	0	0
2008	VOC	8	4	0	0
2008	RAD	5	1	0	0
2008	VOC		1	0	0
2008	IOC	8	1	0	0
2008	VOC	6	1	0	0
2008	FLUORIDE		12	0	0
2008	HAA5		5	0	0
2008	VOC	9	1	0	0
2008	TTHM		5	0	0
2008	RAD	7	1	0	0
2008	IOC	5	2	0	0
2008	IOC	7	1	0	0
2008	VOC	7	1	0	0
2008	RAD	9	1	0	0
2008	IOC	9	2	0	0
2008	IOC	6	1	0	0
2008	VOC	5	1	0	0
2008	RAD	6	1	0	0
2008	PBCU		30	0	0
2007	VOC	8	4	0	0
2007	VOC		1	0	0
2007	VOC	6	1	0	0
2007	FLUORIDE		12	0	0
2007	HAA5		5	0	0
2007	VOC	9	1	0	0
2007	TTHM		5	0	0
2007	NITRATE	7	1	0	0
2007	NITRATE	9	1	0	0
2007	NITRATE	8	1	0	0
2007	IOC	5	2	2	0
2007	VOC	7	1	0	0
2007	IOC	9	2	2	0
2007	NITRATE	5	1	0	0
2007	NITRATE	6	1	0	0
2006	VOC	8	4	0	0
2006	VOC	6	1	0	0
2006	FLUORIDE		13	0	0
2006	HAA5		5	0	0
2006	VOC	9	1	0	0
2006	TTHM		5	0	0
2006	NITRATE	7	1	0	0
2006	NITRATE	9	1	0	0
2006	VOC	7	1	0	0
2006	IOC	5	4	0	0
2006	IOC	9	4	0	0
2006	NITRATE	8	1	0	0
2006	NITRATE	5	1	0	0

Year	Sample Group	Source ID	Samples Taken	Missed Samples	MCL Violations
2006	NITRATE	6	1	0	0
2005	VOC	8	4	0	0
2005	SOC	7	1	0	0
2005	ARSENIC	7	1	0	0
2005	SOC	6	1	0	0
2005	IOC	8	1	0	0
2005	VOC	6	1	0	0
2005	FLUORIDE		11	2	0
2005	HAA5		5	0	0
2005	VOC	9	1	0	0
2005	ARSENIC	6	1	0	0
2005	TTHM		5	0	0
2005	ARSENIC	8	1	0	0
2005	IOC	5	2	0	0
2005	IOC	7	1	0	0
2005	IOC	9	2	0	0
2005	IOC	6	1	0	0
2005	VOC	7	1	0	0
2005	VOC	5	1	0	0
2005	PBCU		30	0	0
2004	VOC	8	4	0	0
2004	FLUORIDE		12	0	0
2004	HAA5		20	0	0
2004	TTHM		20	0	0
2004	NITRATE	7	1	0	0
2004	NITRATE	9	1	0	0
2004	VOC	7	1	0	0
2004	NITRATE	8	1	0	0
2004	NITRATE	6	1	0	0
2004	NITRATE	5	1	0	0

Sample Group	Last Sampled
BACTI	2010
FLUORIDE	2010
IOC	2010
RAD	2009
GROSS_ALPHA	2001
HAA5	2009
ARSENIC	2009
PBCU	2008
NITRATE	2010
VOC	2010
SOC	2008
TTHM	2009

MCL Violations

Source ID	Contaminant	Concentration	MCL	Units	Viol. Start	Viol. End	Continuing Operation?
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None

Definitions

MCL = Maximum Contaminant Limit (as set by the Environmental Protection Agency (EPA))

BACTI = Bacteriological Sample

IOC = Sample for Inorganic Compounds

NITRATE = Nitrate Sample

PBCU = Lead and Copper Sample

RAD = Sample for Radioactivity

SOC = Sample for Synthetic Organic Compounds

VOC = Sample for Volatile Organic Compounds

FLUORIDE = Fluoride from Fluoridation

TTHM = Total Trihalomethane Sample