



August 10, 2015

FILE REF:
PWS ID#: 11305580
Madison Country Day School-NN
Waunakee, WI
Dane County

Ben Hebebrand
5606 RIVER RD
WAUNAKEE, WI 53597

Subject: Sanitary Survey Report

Dear Mr. Hebebrand:

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 07/30/2015, Jim Kralick conducted a sanitary survey of your water system, Madison Country Day School. During the sanitary survey Roger Seaver, Director of Facilities (and your system's Certified Operator) was present. At the completion of the survey, Mr. Seaver was 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.

System Summary

The public water supply system serving Madison Country Day School consists of a single drilled source well, Wisconsin unique well number (WUWN) BN633. According to records on file with the Department, the well was constructed in March 1976 to a borehole depth of 200 feet with 105 feet of 10-inch steel casing grouted in place with neat cement. A 16-inch outer steel casing was installed to 32 feet below grade that further protects the grout in the annular space at that interval. The well is located on the west side of the school building. A submersible pump discharges water above grade through the sanitary seal well cap. The water line then returns below grade and enters the building through the concrete wall of the lower school pool locker room. Once in the school, the water line is pressurized by three bladder-type pressure tanks, approximately 150 gallons each in volume. The tanks are wrapped and thus it was difficult to ascertain the approximate volume of the tanks, as well as the manufacturer and model of each tank. The water receives no treatment, other than softening, prior to entering the schools distribution system.

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.

Deficiencies

During the course of the sanitary survey, no deficiencies were 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.

Recommendations

During the course of the sanitary survey, one recommendation was identified. Recommendations are problems in the water system that hinder your public water system from consistently providing safe drinking water to consumers.

Recommendation

The well house protecting the source well is a large, heavy wood structure with a tin roof and no way to gain entry (no doors, no hinged roof, etc.). In order to view, maintain, or service the well, the structure needs to be lifted off of the well by multiple people. Therefore, access to the well is somewhat hindered.

Discussion of Recommendations:

- Please consider making your source well more accessible by installing a hinged roof on the existing well house, or by reconstructing the well house entirely. If you decide to reconstruct the well house, check with the Department's Public Water Supply Program, as you may need plan approval to complete this task.

Non-conforming Features

During the course of the sanitary survey, no features that met code requirements at the time of your public water system's construction, but would not be allowed in the current code were discovered. These are referred to as "non-conforming features."

Water Quality Monitoring and Reporting

Your system has a good record of compliance with monitoring and reporting requirements. We appreciate your efforts to comply with Safe Drinking Water Act requirements.

Certified Operator

Roger Seaver (license # 62051) is your public water supplies Certified Operator. His license expires 11/01/2016. He will need to accumulate 6 hours of continuing education credits prior to his license being renewed.

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 Sanitary Survey Report is attached. Please review for accuracy. If there are changes that need to be made, contact your public water supply specialist, Jim Kralick.

Capacity Development Evaluation

This sanitary survey serves as an evaluation of the capabilities of your water system. This system has been determined to have adequate technical, managerial, and financial capacity to provide safe drinking water. The ability to plan for, achieve, and maintain compliance with applicable drinking water standards has been demonstrated.

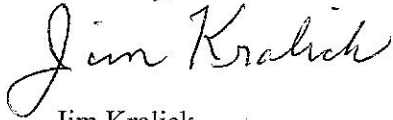
The next sanitary survey of your system is scheduled to take place in 2020. You will be contacted prior to the survey to schedule a date that is convenient for you.

Required Action

The survey did not find anything that required correcting at this time.

Thank you for your assistance during the sanitary survey. If you have any questions, you can reach me by phone at 608-275-3202, by e-mail at James.Kralick@wisconsin.gov, or by postal mail at the address on this letterhead.

Sincerely,

A handwritten signature in cursive script that reads "Jim Kralick".

Jim Kralick
Public Water Supply Specialist, SCR Fitchburg

Encl.: Sanitary Survey Report, Sanitary Survey Checklist, Monitoring Site Plan, 2015 Monitoring Schedule
cc: Eileen Pierce, SCR Program Supervisor
Bureau of Drinking Water/Groundwater - DG/5

SANITARY SURVEY REPORT
11305580 – MADISON COUNTRY DAY SCHOOL
Dane County

Water System Summary Information

System ID: 11305580

System Name: MADISON COUNTRY DAY SCHOOL

County: Dane

Type: Non-transient Non-community

Basin:

Non-transient Population: 380

Transient Population: 0

Service Connections: 1

Owner: BEN HEBEBRAND

5506 RIVER RD

WAUNAKEE, WI 53597

(608) 850-6000 Fax: (608) 850-6006

bhebebrand@madisoncountryday.org

Date Security VA Complete:

Date ERP Complete:

Date ERP Last Exercised/Updated:

Emergency Phone: (608) 850-6000

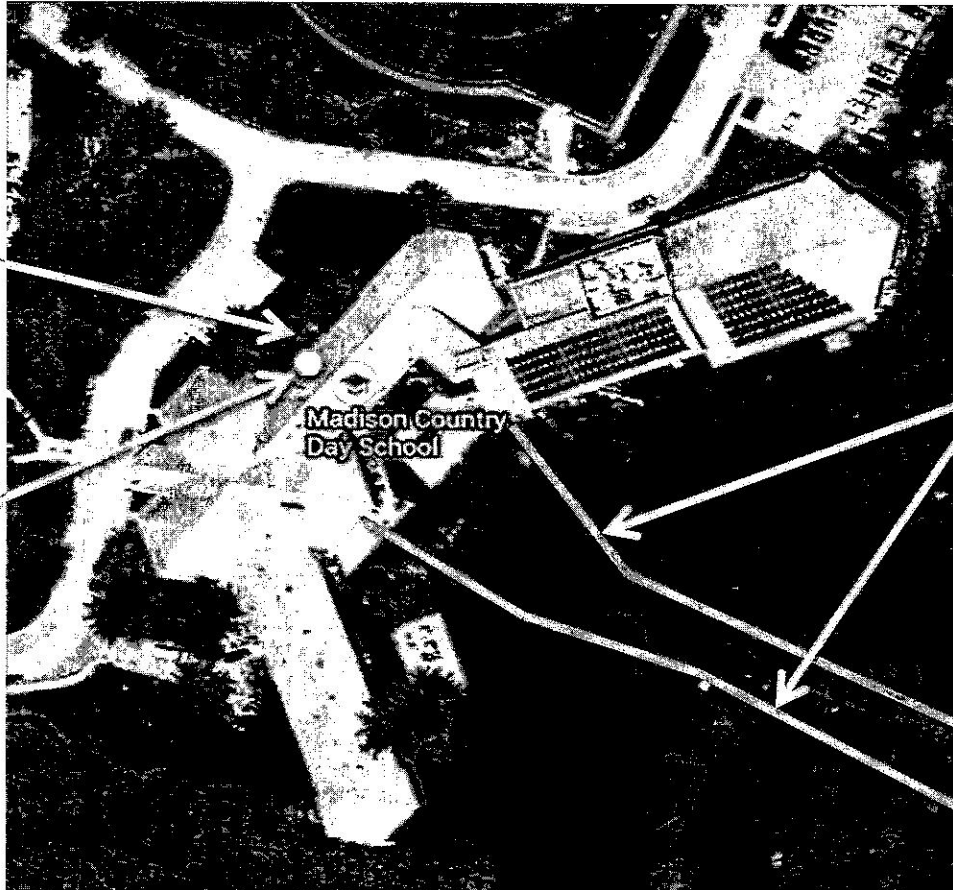
Emergency Fax: (608) 850-6006

Emergency E-mail: rseaver@madisoncountryday.org

Site Plan and Site Pictures

APPROX.
LOCATION
WELL HOUSE
AND SOURCE
WELL BN633

APPROX.
LOCATION
PRESSURE
TANKS IN
BASEMENT
UTILITY
ROOM



APPROX.
LOCATION
SANITARY
SEWER
LATERALS
TO PUBLIC
SEWER
SYSTEM



SOURCE WELL BN633

Certified Operators

Name	Lic. #	Expires	Phone/Fax/E-mail	Address 1	City, State, Zip
ROGER SEAVER	62051	11/01/2016	(608) 850-6000 rseaver@madisoncountryday.org	5606 RIVER RD	WAUNAKEE, WI 53597

Affiliations

Name	Affiliation	Start Date	Primary?	Phone
ROGER SEAVER	SAMPLER	08/29/2013	Y	608-850-6000 x113
BEN HEBEBRAND	OWNER	07/31/2015	Y	608-850-6000
ROGER SEAVER	EMERGENCY	08/09/2013	Y	608-850-6000 x113
JIM KRALICK	DNR REP	10/07/2013	Y	608-275-3202

Entry Points and Sources of Water (Basic Data)

Source ID	Name	WUWN	Status	Type	Source	Depth	Cased	Grouted
1		BN633	Active	ENTRY PT/SOURCE	Ground Water Source	200	105	105

Entry Points and Sources of Water (Misc. Data)

Source ID	PLSS	Lat./Long.	Pump Cap.	Pump Type	Aux. Power?
1	T8, R9E, S23, Q-NE QQ-NW	43.16268N x 89.38746W		Submersible	Unknown

Storage

ID/Location	Type	Vol. (gal)	Firm Pumping Capacity (gpm)	Aux. Power?	Mfg.	Model
001/ Basement Utility Room	PRESSURE TANK	150*		Unknown		
001/Basement Utility Room	PRESSURE TANK	150*		Unknown		
001/Basement Utility Room	PRESSURE TANK	150*		Unknown		

*Pressure tank volumes are approximate. Pressure tanks were wrapped and specific information regarding tank volume, manufacturer, and model could not be obtained.

Booster Stations

ID/Location	Type	Firm Pumping Capacity (gpm)	Aux. Power?
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None

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.	Comments
1	000	0	01/01/1960		No Treatment at Source			

System Evaluation Summary

Inspector/Reviewer	Date	Report Date	Type	Agency	Response Due	Response Recd
KRALICK, JIM	07/30/2015	08/10/2015	SURVEY	DNR		
ALES, STEPHEN M	09/01/2010	09/03/2010	SURVEY	DNR		
HEIMKE, SANDY	09/14/2005	09/15/2005	SURVEY	DNR		
HEIMKE, SANDY	11/12/2001	11/13/2001	SURVEY	DNR		
HEIMKE, SANDY	03/24/1999	06/18/1999	SURVEY	DNR		
STAUBER, MIKE	09/28/1995	10/30/1995	SURVEY	COUNTY		
GRASSHOFF, RON	12/21/1990	12/26/1990	SURVEY	DNR		
OLIG, DAVID	01/19/1977	02/08/1977	SURVEY	DNR		

Bacteriological Sampling History

Year	Distribution Safe	Distribution Unsafe	Confirmed Unsafe	Missed Samples	Raw Safe	Raw Unsafe	Fecal Positive?
2015	2			0			N
2014	4			0			N
2013	4			0			N
2012	4			0			N
2011	4			0			N
2010	4			0			N
2009	4			0			N

Chemical Sampling History

Year	Sample Group	Source ID	Samples Taken	Missed Samples	MCL Violations
2015	IOC	1	1	0	0
2014	NITRATE	1	1	0	0
2013	SOC	1	3	1	0
2013	VOC	1	1	0	0
2013	IOC	1	4	0	0
2012	NITRATE	1	1	1	0
2012	PBCU		5	0	0
2011	NITRATE	1	1	0	0
2011	PBCU		5	0	0
2010	VOC	1	1	0	0
2010	NITRATE	1	1	0	0
2010	PBCU		5	0	0
2010	IOC	1	4	0	0
2009	NITRATE	1	3	1	0
2009	PBCU		5	0	0
Sample Group	Last Sampled				
BACTI	2015				
IOC	2015				
NITRATE	2014				
PBCU	2012				
TRIAZINE	1999				
VOC	2013				
SOC	2013				

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

Sanitary Survey Checklist for Madison Country Day School, Date of Survey: 07/30/2015

Question	Answer	Comments
I. Is the source adequate (protection, physical components, capacity)?	Y	
A. Is the well adequately separated from contaminant sources, including protection from flooding? (812.08)	Y	
B. If information available (i.e., construction report) does the well(s) meet the appropriate construction requirements?	Y	
C. Are unused wells properly abandoned? (NA if none) (812.26 (1)-(9))	N/A	
D. Is the finished well height adequate? (> 12" post-1991, > 8" pre-1991, > 6" pre-1953) (> 2 ft if located in Floodway/Floodplain)	Y	
E. Is the well seal and venting code complying? (812.30)	Y	
1. Are all openings through well cap water-tight? (airline and other wires/lines) (812.30 (5))	Y	
2. Is the vent through the well cap code complying? (> 0.25 sq.in., w/screen, terminates 12" from floor, downward facing) (812.30 (3))	N/A	No vent through the well cap.
3. Is there a code complying raw water sample tap(s)? (812.34)	Y	
II. Are the pump(s), discharge piping, pump facility(ies) and controls adequate?	Y	
A. Is the pumping facility(ies) adequately protected against unauthorized access? (810.23) & ((811.25(c)) for CWS's)	Y	
B. Is the capacity of the pump(s) sufficient? (812.32 (1)(a)(2))	Y	
C. Are the pump(s) & pumping controls in satisfactory working condition?	Y	
D. Does the pumping system(s) use only approved lubricants? (812.32 (1)(b))	Y	
E. Does the discharge piping and appurtenances meet NR 812 requirements?	Y	
F. Does the pump facility(ies) meet NR 812 requirements? (NA if no facilities)	Y	
G. Is the pump facility(ies) protected from flooding? (casing height 2 ft. above flood elevation)(812.08)	Y	
III. Is the water treatment adequate? (NA if no treatment)	N/A	
A. Does the department approved water treatment device installation meet approval conditions, including operations and maintenance? (NA if no Dept. Approved treatment) (812.37)	N/A	
B. Is the current treatment adequate for protecting public health, given source water quality?	N/A	
C. Is there adequate water quality monitoring equipment at the facility? (810.03)	N/A	
D. Are the disinfectant residuals appropriate? (NA if no disinfection or no distribution system)	N/A	
E. Is there an adequate corrosion control program? (NA if no dist. system or not required) (812.37 (3)(d))	N/A	
F. Is the water system protected from accidental chemical overfeed? (anti-siphon device & power outlet linked with pump power) (NA if no chemical addition)	N/A	
G. Is there an adequate means for determining chemical usage? (NA if no chemical addition) (812.37)	N/A	
H. Is the chemical storage adequately protected from contamination? (overlapping cover, sealed openings, made of appropriate material, etc.)(NA if no solution tank) (810.09(1)(f))	N/A	
I. Is the O & M of the treatment facility(ies) adequate? (NA if no treatment facility) (810.03)	N/A	
J. Is the condition of the treatment equipment satisfactory? (NA if no treatment, including emergency	N/A	

Sanitary Survey Checklist for Madison Country Day School, Date of Survey: 07/30/2015

Question	Answer	Comments
treatment) (810.03)		
K. Is monitoring of treatment system performance adequate? (NA if no treatment) (810.03)	N/A	
L. Are appropriate record keeping practices used? (NA if no treatment) (810.40)	N/A	
M. Is the chemical(s) used in treatment NSF approved? (NA if no treatment) (812.37 (2)(i))	N/A	
N. Are chemical storage/spill containment practices adequate? (NA if no treatment) (812.37)	N/A	
O. Are chemical handling and spill response protocols adequate? (NA if no treatment) (812.37)	N/A	
P. Does the treatment process(es) adequately respond to changes in raw water quality? (NA if no treatment)	N/A	
Q. Are there sufficient fail-safes to ensure the continued operation of the treatment process(es)? (NA if no treatment)	N/A	
R. Is the treatment system(s) protected from flooding? (NA if no treatment)	N/A	
IV. Is the finished water storage facility(ies) adequate, including pressure tank(s)? (NA if none)	Y	
A. Do all of the storage facilities meet NR 812 requirements? (NA if no storage) (812.33)	Y	
B. Are sufficient contamination prevention mechanisms employed? (NA if no storage)	Y	
C. Is the O & M of the storage facility(ies) appropriate? (NA if no storage) (810.03)	Y	
D. Is the storage capacity sufficient to meet water use demands? (NA if no storage)	Y	
E. Is the condition of the storage components satisfactory? (NA if no storage) (810.03)	Y	
F. Does the system use only AWWA standard D102 approved coating materials? (NA if no applicable storage) (812.33 (3))	Y	
G. Is the storage facility(ies) protected from flooding? (NA if no storage) (812.08 (1))	Y	
V. Is the distribution system adequate? (NA if no distribution system)	Y	
A. Are all cross-connections to potential contamination sources eliminated? (810.15)	Y	For the parts of the system that were inspected.
VI. Is water system operations and management adequate?	Y	
A. Are operators up to date with current standards, problem areas in the water system, current issues, new contaminants, regional source water problems, etc.?	Y	
B. Have measures been taken to enhance the security of the water supply system? (Recommendations listed in security manual)	Y	
C. Have past inspection deficiencies, outlined in previous inspection reports, been corrected as required? (Review / initiate stepped enforcement process)	Y	
D. Has the system made an effort to stay in compliance with state regulations?	Y	
E. Does the system provide adequate operator support/training? (810.03)	Y	
F. Are there adequate long- and short-term plans for system operation and maintenance? (810.13)	Y	
G. Does the operator understand: Regulatory costs? Water system budget (annual budget)? Upgrade and maintenance costs for the next 3-5 years?	Y	

Sanitary Survey Checklist for Madison Country Day School, Date of Survey: 07/30/2015

Question	Answer	Comments
H. Are adequate public notification procedures adhered to? (809.950)	Y	
I. Does the system have adequate revenue to meet regulatory requirements? 810.03	Y	
J. Does the system have adequate revenue to cover emergency costs? 810.03	Y	
K. Is there a means of communicating with customers other than public notification (annual system newsletter, water conservation pamphlets, etc.)?	Y	email blast
VII. Is all monitoring/reporting/data verification adequate and accurate?	Y	
A. Has the system been in compliance with their monitoring requirements with respect to samples taken and frequency?	Y	
B. Are there updated monitoring plans on file with the department for bacteria (809.31(1)(a)), lead/copper ((809.547(1)(a)) and disinfection byproducts ((809.565(6)))?	Y	
C. Does the system appropriately implement sampling plans in order to meet monitoring rule requirements? (sample sites spatially appropriate and rotate from site to site)	Y	
D. Has the system been in general compliance with regards to water quality?	Y	
E. Has water quality generally not degraded since the last sanitary survey?	Y	
F. Are monthly operating reports complete and submitted in a timely manner (required for MC's, OTM's that have treatment or chemical addition, all hi-caps)? (810.07)	N/A	
G. Have the appropriate public notices been issued in a timely manner?	Y	
H. Does the monitoring data reported to the DNR match that on file in the system's records? (809.82)	Y	
I. Are sampling faucets and faucet locations appropriate for each type of sample (including raw, entry point and distribution)?	Y	
J. Is the sampling procedure for each type of sample appropriate?	Y	
K. Were there no recent water quality and/or quantity complaints from customers?	Y	
VIII. Has the operator(s) fulfilled certification requirements?	Y	
A. Does the system have a certified operator? (810.04(3))	Y	
B. Has the operator(s) fulfilled continuing education requirements? (NR 114 Subchapter I or III)	Y	
C. Is the operator(s) aware of renewal requirements and certification expiration date?	Y	