

April 14, 2008

Mr. Tom Stunkard, P.E.
Public Water Supply Engineer
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

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Subject: Response to the DNR Inspection Report of August 2, 2007

Dear Mr. Stunkard:

We have prepared this letter as both a response to your annual inspection of Madison Water Utility facilities and to ensure that we maintain effective communication with the Department. Several issues have been highlighted on previous Annual Inspection Reports. We will use your letter to the Utility dated August 2, 2007 as a template for our response. As always, we appreciate your time and effort in reviewing our system and providing us with a written report. We are always looking for ways to improve and upgrade our facilities and it is our intention to meet and exceed all DNR requirements.

ACTION ITEMS

1. The screen on the well vent at Well 23 was replaced on July 30, 2007.
2. Well 29 Filtration: Our pump operators are in the process of obtaining the necessary certification and we expect that to be completed well ahead of the start of the filtration system which is expected in mid to late 2009. In addition to getting our Water Works Operator 2 fully certified, we are moving to have our Water Works Maintenance Workers promoted to Water Works Operator 1 when they attain full certification. That will provide the Water Utility with a strong cadre of trained and certified operators.
3. Private Well Abandonment: We continue to work on identifying, permitting and abandoning private wells. The Annual Drinking Water Quality Report for this year will have a section on private wells that will provide information to homeowner's on how to identify potential private wells and the importance of properly abandoning unused wells. Using the city's database, the utility has identified approximately 250 homes or structures that were or are served by a private well or on-site wastewater disposal system. There may be hundreds of other properties that have the potential of having had a private well at some point and which may not have been abandoned properly.

Our goal is to develop a prioritization of notification to these property owners that we can properly manage.

Later this year, the Utility will mail surveys to homeowners identified by our analysis asking them to inspect their property and identify private wells, or to contact the water utility for an inspection of their

property. Once identified we will work with the homeowner to properly abandon any existing private wells or, if they wish to continue using the well, have the well tested for bacteriological safety and then permit the well.

Based on the number of potential wells and current staffing, it is expected that the identification of private wells and development of an inventory will be complete in 2008 while testing and permitting of newly-identified wells will likely continue into the next decade.

4. **Fluoride Injection Points:** Work orders have been created and we are in the process of revising the fluoride injection points at Wells 8, 9, and 19. This work was completed the week of February 25th, 2008.
5. **Separate chemical feed rooms:** For wells 6, 7, 8, 9, 10, 11, 12, 13, and 23 it is still our intent to add separate gas tight chlorine rooms in the wells where it is feasible. At the wells where it is not feasible, it is our intent to investigate other forms of disinfection to make those wells safer for our employees and easier on our equipment. On March 25, 2008, the Water Utility Board directed staff to commence a public participation process to install filtration for wells 7, 8, and 10. Well 8 would be scheduled for upgrade to filtration in 2009, Well 10 would be scheduled for 2010, and Well 7 would be scheduled for 2011. When and if filters are added to these facilities, we will upgrade the chemical feed rooms at that time as a part of this project. We think that it would be feasible and appropriate to upgrade one chemical feed room each year subject to an improvement in the Utility's financial status.
6. **Doors at 10, 12, and 14:** The doors at Well 14 have been replaced with doors that swing out. We are developing a schedule of door replacement for wells 10 and 12. At this time we do not have a specific schedule for this work but we expect to have it finished by the end of 2009.
7. **Buried deep well discharge piping:** We concur with your concerns with the well discharge piping at wells 11 and 13. This would be a major project that we have not currently budgeted for or scheduled. It is our intent to investigate options and costs and get this work into the 2009 and 2010 budget, again subject to improvement in the Utility's financial status.
8. **Pumping Equipment at Unit Well 7:** We are in the process of evaluating the feasibility of adding a filter to Well 7 in 2011 or 2012. If that project moves forward, we will renovate and reconfigure the pump station to address the issue of the pumping equipment in the lower level. It is expected that we will have a feasibility study completed on this work by the end of 2009.
9. **Well 3 has been abandoned as of April 4, 2008.** Municipal Well and Pump was contracted for the work. The documentation will be submitted to the Department. We shall also need to abandon Burke Utility District No. 1 Well at the intersection of Wheeler Road and CTH CV. We are investigating that project at this time.
10. **Reservoir Painting:** During 2008, we are planning to paint our elevated tanks on High Point Road and Prairie Road. Reservoir 315 on High Crossing Boulevard will be painted in 2012. We have had our High Point Road tank inspected and we will be contracting with SEH for specification preparation, they will coordinate the paint specifications with Larry Landsness. We will also hire a consultant to prepare specifications for the Prairie Road reservoir. These specifications will also be submitted to Larry Landsness for review. High Point Road should be painted in the fall of 2008. The painting of Prairie Road Reservoir will be budgeted for 2009.

The proposed Sprecher tank work is a repair of exterior paint and does not come into contact with the water supply. It is not our intention to submit the work to the Department unless you require review.

11. **Cross Connection Control Program:** We will continue to evaluate and work to improve our cross connection program to meet DNR standards. We are currently developing a schedule to inspect all commercial and industrial accounts on a four-year rotation given current staffing. We may revisit our

ordinance and propose a change that would require large facilities such as the University, Kraft Foods, and the hospitals to perform their own inspections with a qualified inspector and we would perform annual spot-checks. We will be adding information this year to our Annual Drinking Water Quality Report about the dangers of potential cross connections and how residential customers can protect themselves and our water system from potential contamination arising from cross connections. Joe Stein has announced his retirement for January of 2009 and we shall need to promote and train his replacement.

11. Reservoir Inspections: We will inspect all of our small reservoirs and elevated tanks every five (5) years and our large reservoirs will be inspected every ten (10) years. It should be noted that our large reservoirs, namely, the High Service Reservoir #106, Smith Reservoir at well no. 20, High Point Reservoir at well no. 26, the reservoir at well no. 19, the Allis Heights Reservoir at well no. 9, the reservoir at well no. 24, and the E.L. Nordness Reservoir have all been either inspected, cleaned, or painted between 1999 and 2002. We do not anticipate inspecting these large reservoirs again until the years 2009 to 2012.

Again, thank you for your annual review of our system. It is helpful to us in our operation and maintenance of the system. If you need any information or if you note anything else that should be brought to our attention please do not hesitate to do so.

As stated several times in our action item list, the Madison Water Utility needs to improve its financial status in order to accomplish some of the more expensive tasks. We are working to that end but it will remain an important aspect on everything that we do.

If you have any questions or concerns, please call.

Sincerely,

MADISON WATER UTILITY


Larry D. Nelson, P.E.
Interim General Manager