



April 6, 2011

THE HONORABLE JACK F. CHIOVATERO
MAYOR'S OFFICE
3805 SOUTH CASPER DRIVE
NEW BERLIN WI 53151-0921

Subject: March 2011 Documentation of Reporting Requirements for the City of New Berlin Water Supply Service Area Plan and Diversion Approval

Dear Mayor Chiovatero:

On March 14, 2011, the Department received the City of New Berlin's Annual Report of Water Use in the Approved Service Area and Return Flow for the City of New Berlin, Wisconsin (Report).

The Water Supply Service Area Plan and Diversion Approval (Approval) issued by the Department on May 21, 2009 requires the City of New Berlin to submit annual reporting information to the Department by March 1 of the following year. Specifically, section VI of the Approval requires the City of New Berlin to report the following information for the prior year (2010) to the Department:

1. The total amount of water purchased from Milwaukee.
2. The amount of water sold to each category and the subcategory of customer on a quarterly basis within the City limits.
3. The amount of water sold to each category and the subcategory of customer on a quarterly basis within the approved diversion area.
4. The amount of water diverted to the approved diversion area on a monthly basis (to be estimated by the City)
5. The amount of water pumped from each municipal well from within the City limits on a quarterly basis, noting the basin in which each well is located.
6. Average residential per capita use.
7. A description of the efforts made by the City to improve water conservation and efficiency and minimize the infiltration and inflow into the sanitary system.
8. Estimates of the total monthly sewerage flow within the City.
9. Estimates of the monthly sewerage return flow from within the approved water supply service area and approved diversion area.

The Department has reviewed the City of New Berlin's 2010 Report, and there are omissions and deficiencies that the City must address. The following paragraphs briefly summarize the Department's review, and note areas where the City must provide additional information. For your convenience, I have underlined those areas where the City must provide additional information.

1. The total amount of water purchased from the City of Milwaukee.
The total amount of water purchased from the City of Milwaukee in 2010 is reported as 882,647,480 gallons. This information appears to be complete and meets the reporting requirements.

2. The amount of water sold to each category and the subcategory of customer on a quarterly basis within the City limits.

This information is presented in Table 2-1 and appears to be complete and meets the reporting requirements.

3. The amount of water sold to each category and the subcategory of customer on a quarterly basis within the approved diversion area.

This information is presented in Table 3-1 and appears to be complete and meets the reporting requirements. However, please edit the title of Table 3-1 to "Amount of water sold to each category and subcategory of customer on a quarterly basis within the ~~service~~ diversion area".

4. The amount of water diverted to the approved diversion area on a monthly basis (to be estimated by the City).

This information has been omitted and must be submitted to the Department, preferably in a clearly identified stand-alone table. In addition, please describe the method used to estimate the monthly diversion amount.

5. The amount of water pumped from each municipal well within the City limits on a quarterly basis, noting the basin in which each well is located.

This information has been omitted from the report. If no water has been pumped from the municipal wells, please state so in the report.

6. Average residential per capita use.

The combined city-wide residential per capita water use in the service area is reported to be 60.38 gallons per day. The per capita water use calculation in Table 4-1 is based on a population served of 27,899.

Please describe the method used to determine the population served by the water system for purposes of the calculation of average residential per capita use as shown in Table 4-1.

7. A description of the efforts made by the City to improve water conservation and efficiency and minimize infiltration and inflow to the sanitary sewer system.

The report indicates a projected savings of 9.4 million gallons of water per year by not using water softeners in the diversion area and a projected savings of 8.7 million gallons of water per year by reducing hydrant flushing from twice per year to once per year. Please indicate in the report the method of ensuring that water softeners were actually disconnected by residents and the actual water savings realized by disconnecting water softeners and reducing hydrant flushing from twice per year to once per year.

The 2009 Water Conservation Plan indicates that the City has a goal to reduce peak water demand by 1 MGD. Please state in the report the progress the City has made toward reaching this goal.

Please include a status update, by way of narrative and data analysis as appropriate, on the implementation of "Program," "Voluntary", and "Mandatory" water conservation measures included in the 2009 Water Conservation Plan. In particular, please include specific information on water audits, leak detection activities, and main repair and replacement in 2010.

Efforts to minimize Infiltration and Inflow (I/I) with sewer rehabilitation projects are identified in Table 5-1. If there were any stormwater drainage improvement projects conducted in year 2010, please provide the information in the report.

Also, the narrative discussion on water pumpage data, sewer flow and I/I estimates consists of 2009 data, please update the pumpage data, sewer flow, I/I flow estimates and narrative discussion to include 2010 data.

8) Estimates of the total monthly sewerage flow within the City.

The estimates of monthly sewerage flow data reported in Table 6-1 lists the monthly and annual sewer flow data as 16,623,701 and 202,255,029 respectively. The sewerage flow amounts appear to be low compared to the City's reported monthly and annual water pumpage of 73,553,956 (average) and 882,647,480, respectively. The water pumpage and the sewerage flow reporting values need to be clarified, and, if the reported sewerage flows are correct, the City needs to explain why the return flow amount is significantly lower than the water pumpage total.

The report submitted to the Department last year (2010) states that the City annually contracts with a consultant to monitor sewerage flows. The sewerage flow data contained in the 2010 report was based, in part, on data from sewerage flow monitoring activities conducted in 2009 by the consulting firm R.A Smith Associates and Milwaukee Metropolitan Sewerage District (MMSD). If annual sewerage flow monitoring activities were conducted in 2010, please provide the data in the City's 2011 report.

9) Estimates of the monthly sewerage return flow from within the approved water supply service area and approved diversion area.

This information is reported in Table 6-1. As stated in item 8 above, please confirm the monthly sewerage flow values, and, if available, provide 2010 sewerage flow monitoring data and address the discrepancy between the monthly water pumpage volumes and the reported sewer return flows.

Within 30 days of this letter, please re-submit a report that addresses the comments, deficiencies and omissions outlined above. The additional information is necessary to satisfy the requirements set forth in the Approval.

In addition to these reporting requirements enumerated above, as stated in section V of the Approval, the City is subject to the water conservation and efficiency requirements specified in administrative rule. Wisconsin Administrative Code Chapter NR 852 (Water Conservation & Water Use Efficiency) took effect on January 1, 2011. We will contact you within the next two weeks to set up a meeting to assist the City in complying with ch. NR 852.

Please contact Dino Tisoris, Water Supply Specialist, at (608) 267-4581 with any questions regarding the reporting requirements or the request for additional information specified in this letter.

Sincerely,



Eric K. Ebersberger
Water Use Section Chief
Bureau of Drinking Water and Groundwater

Cc: Jill Jonas, DG/5

