Water Quality Monitoring Report
2007 Monitoring Schedule

Quality and Reliability since 1882
Madison Water Utility

Monthly Report for: **Nov-07**

Analyte Group	Sample Locations	Monitoring Requirements (# of Samples)		Monitoring Activity (# of samples)		Violations & Public Notices
		Monthly	2007 Annual Requirement	Current Month	Year to Date 2007	Year to Date
Coliform Bacteria	Operating Wells and Distribution Sites	120	1500	439	3780	0
Free Chlorine Residual "Grab" Samples	Operating Wells and Distribution Sites	160 (1)	1900 (1)	717	6916	0
Fluoride	Operating Wells	450 (1)	5400 (1)	459	4691	0
Inorganic Contaminants (28 analytes) (2)	Wells	na	23	0	23	0
Disinfection/Disinfection Byproducts Total Trihalomethanes (TTHMs) Haloacetic Acids (HAA5s)	Distribution System Entry Points	na	7	0	7	0
Annual Volatile Organic Compounds (VOC) (41 analytes) (2)	Wells	na	6	0	18	0
Quarterly Volatile Organic Compounds (VOC) (41 analytes)	Wells	Per Quarter 6 (1)	24	0	15	0
Manganese Tap Samples	Citywide	na	na	70	132	na

(1) Sampling requirement will vary depending on the number of wells in operation during specific days or quarters
(2) Sampling is usually completed June to September in each calendar year, with results reported in the month following sampling.

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Calls logged to the Water Quality Correspondence Database - 2007
Update: 11/2/07

Year	Month	All Calls	Color	Manganese	Pressure	Taste	Odor	No Water	Other
2007	January	47	12	4	3	2	3	1	27
2007	February	58	21	3	5	1	4	6	22
2007	March	59	14	4	6	3	4	9	27
2007	April	70	14	2	4	7	5	1	42
2007	May	79	32	1	2	3	12	4	29
2007	June	109	73	0	3	9	9	2	20
2007	July	76	26	0	7	8	11	5	23
2007	August	99	46	2	13	8	13	13	14
2007	September	69	24	2	0	4	6	16	21
2007	October	200	48	0	31	4	4	17	102

Year	Month	All Calls	Color	Manganese	Pressure	Taste	Odor	No Water	Other	Alder District
2007	10	6	1	0	1	0	0	1	3	01
2007	10	2	2	0	0	0	0	0	0	02
2007	10	8	5	0	0	0	0	0	3	03
2007	10	8	7	0	1	1	0	0	1	04
2007	10	1	0	0	0	0	0	0	1	05
2007	10	17	16	0	0	0	0	0	1	06
2007	10	56	0	0	2	0	1	14	39	07
2007	10	31	0	0	0	0	0	0	31	07*
2007	10	1	0	0	0	1	0	0	0	08
2007	10	5	2	0	1	0	0	0	2	09
2007	10	3	1	0	1	0	0	0	1	10
2007	10	5	2	0	0	0	0	0	3	11
2007	10	1	0	0	0	0	0	0	1	12
2007	10	2	2	0	0	0	0	0	0	13
2007	10	2	2	0	0	0	0	0	0	14
2007	10	5	1	0	4	0	0	0	0	15
2007	10	16	0	0	12	0	0	0	4	16
2007	10	6	0	0	0	0	0	1	5	17
2007	10	9	3	0	5	1	1	0	1	18
2007	10	6	0	0	2	0	2	0	2	19
2007	10	4	2	0	2	1	0	1	0	20
2007	10	5	1	0	0	0	0	0	4	none
2007	10	1	1	0	0	0	0	0	0	unknown

Year	Month	All Calls	Color	Manganese	Pressure	Taste	Odor	No Water	Other	Alder District
2007	9	1	0	0	0	0	0	0	1	01
2007	9	4	2	0	0	0	1	0	1	02
2007	9	1	0	0	0	0	0	0	1	03
2007	9	2	1	0	0	0	0	0	1	04
2007	9	6	1	0	0	1	1	0	4	06
2007	9	1	0	0	0	0	1	0	0	08
2007	9	4	3	0	0	0	0	1	0	09
2007	9	1	1	0	0	0	0	0	0	10
2007	9	3	0	1	0	1	0	0	2	11
2007	9	5	1	1	0	0	0	1	3	12
2007	9	2	1	0	0	0	1	0	0	13
2007	9	17	8	0	0	0	0	9	0	14
2007	9	2	0	0	0	0	0	0	2	15
2007	9	3	1	0	0	1	1	0	0	16
2007	9	2	0	0	0	0	0	0	2	17
2007	9	2	0	0	0	1	0	0	1	18
2007	9	2	1	0	0	0	0	0	1	19
2007	9	6	0	0	0	0	0	4	2	20
2007	9	5	4	0	0	0	1	1	0	none

* Presumed to be from District 7; coincide with water outage due to flushing

Report: Residential Tap Samples, UW 8

Legistar No. _____

Date: November 27, 2007

To: Madison Water Utility Board

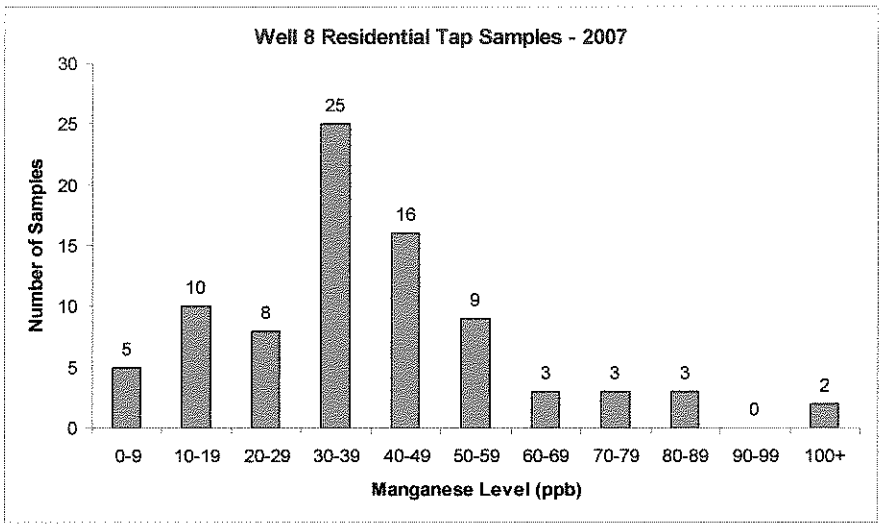
From: Joseph Grande, Water Quality Manager

The Water Utility collected 84 residential tap samples from the Well 8 service area during September and October 2007. These samples were tested for manganese and iron. Samples were collected as part of an on-going effort by the utility to better understand and manage the levels of manganese in Madison drinking water. All samples were analyzed by Public Health – Madison and Dane County.

The Well 8 service area was selected for additional sampling because (a) the highest frequency of customer complaints about discolored water come from this service area, (b) manganese and iron levels are at or exceed the secondary standards for these minerals, and (c) sample collection coincided with the utility's on-going evaluation of the uni-directional flushing program.

The figure below summarizes the results for the 84 samples. Tap samples ranged from 1.6-135 ppb of manganese. The mean and median concentrations were 39 and 36 ppb, respectively, with a standard deviation of 22. Two locations tested above 100 ppb and were re-sampled according to the recommendations in the 2006 Manganese Monitoring Report. Manganese levels measured at the well have varied from 46-51 ppb in 2007. The well is currently shutdown for the winter.

With the exception of the manganese and iron levels, the water quality of UW 8 is excellent and the well has a rated capacity of 1800 gpm.



Recommendation: Staff does not recommend that the Board take any action at this time. UW 8 should be considered as problematic because of the potential for colored water. Dependent on the outcome of the location of a replacement site for UW 3, UW 8 may be a candidate for future filtration for manganese and iron.