



## Engineering Report to the Water Board

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### Engineering Systems and Mapping

1. GIS: Entering 2007 water main projects and main leaks into GIS. Transferred all main leaks for 1980-2004 to GIS and began QC on the data.
2. Flushing Planning for 2008: Most routine flushing has been suspended due to the flooding. An updated schedule will be developed to evaluate the impact of this delay on the overall flushing plans.
3. Water Utility Strategic Planning: Working on SOP and Work Practices.
4. Lead Services: Mailed about 250 letters to customers who are overdue on their lead service replacements.
5. Hydraulic Model: Model conversion and updating services contracted with MWH Soft.

### Water Main Design Projects – 2008

Private contract design additions: Tradesman Commerce Park; Silicon Prairie Phase 2; Linden Park Phase 6; Linden Park Phase 7; Blackhawk 8<sup>th</sup> Add Phase 4

Projects out for bid: Allis Ave

### Water Main Construction Projects – 2008

Projects waiting for or under construction: Kendall Ave: Jennifer/ Livingston; Riverside/ Yahara; Central Sanitary Replacement; Jean / Leitch / N Pinckney: Few / Baldwin; Allied Drive; Arbor / Knickerbocker; Park St; Rugby Row / Eton Ridge; N Sherman; Spaight / Russell / Walton; Union Corners phase 2; St. Paul / Dixon; Sachs / Marquette Street; East Sanitary Replacement; Dickinson / E. Main

Projects under construction:

Starkweather / Clyde Gallagher : Water 98%, water services 75%;

State St.: Main and services are completed; removals of hydrants, valve boxes and water manholes still remain.

Waubesa: Water main has been completed, services are 98% completed, removals still need to take place.

E. Gorham: Water main is in from Few to Brearly, work on services has begun from Few to Ingersoll.

Capitol Square: Two of the three hydrants have been relocated and the third will be relocated sometime in the fall.

W. Doty: Casing is in under bike path, water main is installed from the west side of the bike path to just east of the east end of the casing.

Randall Ct.: Water main is 97% completed, work on services have not begun.

Capitol Ct.: Water main and services are completed; cut-off's on Orchard & Charter are scheduled for the week of 6/16

Completed construction: American Center; Marquette/Sach St.; East Towne Mall Water Relocation; E. Main (1<sup>st</sup> to 2<sup>nd</sup>); Dixon / St. Paul; Union Corners; and Hermina

### Maintenance Projects

1. Well 26: Deep well pump failed and is being replaced. Rise in chlorine demand is due to the presence of nitrite.
2. Reservoir 126 loss of water: Booster pump lost prime due to failure of air compressor and pump priming system. No other mechanical problems were noted with the station.
3. Reservoir 225: Evaluating quotes to repair the paint on the stem of the reservoir. Plan to repair the paint this summer.
4. Reservoir 126 Painting: Painting project to completely repaint the tank this fall is out for bids. Scheduled start: Sept. 2<sup>nd</sup>.

### Unidirectional Flushing Operations and Sampling

1. Finished up area 13. Flushing continues in the Well 7, 19, 23, 24 (Night) and 28 areas.
2. Flushing operations have been suspended due to the heavy rains and the flooding conditions.
3. 2008 flushing numbers through the end of May, 188 miles flushed in 815 runs using 39.1 million gallons of water.

### East Isthmus Well Siting Study and Public Participation Program

1. Met with the DMA to investigate the feasibility of developing a well site in the Anderson & Wright Street area.

### Well 29 Iron and Manganese Filter

1. Gained project approval from the UDC on June 4<sup>th</sup>. Will go to the Plan Commission on July 7<sup>th</sup>.
2. Earth Tech is finalizing the building design and facility controls. Bid opening planned for August 15<sup>th</sup>.

### Whitney Way Well Site

1. Working on the WDNR well siting permit to allow us to drill the well. We have received the contaminant source inventory and are organizing the data for the proposed site.

### Graduate Research Project

1. During the past month, Ryan continued a flushing sampling program that looks at the turbidity at several different velocities. The flooding of the lakes has slowed things down and hampered efforts to collect samples.
2. Ryan will finish his thesis and graduate in July. A presentation to the Board will be scheduled for August.

### Wellhead Protection Plans – Wells 7, 11, 16, and 17

1. Over the past month we continued to struggle to get the necessary information for the contaminant inventories. We have changed vendors and are currently waiting for the compilation of the data to allow us to move forward with the plans.