



Engineering Report to the Water Board

Item 7
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Engineering Systems and Mapping

1. GIS: Ongoing extensive work to enter completed water main projects and main leaks into the Utility's GIS.
2. Lead Services: Coordinating PO lead replacements and sending out notifications
3. Unidirectional Flushing: Starting to prepare for 2009
4. Hydraulic Model: Supporting the Public Participation program.
5. Water Utility Strategic Planning: Working on SOP and Work Practices Design Teams.

Water Main Design Projects – 2008/2009

Projects under design: Arbor/Knickerbocker; University Avenue; NE Sewer Interceptor; Sherman Terrace Condos; Monona Drive

Private contract design additions: None

Projects out for bid: none

Projects Waiting for Construction: East Washington Ave

Water Main Construction Projects – 2008

Completed Projects: American Center; State St.; Waubesa; Marquette/Sach St.; Dixon/St. Paul; Union Corners Hermina; N. Fourth St.; East Towne Mall Water Relocation; E. Gorham; E. Main (1st to 2nd); Capitol Square; W. Doty; Monroe/Randall; Kendall/Chestnut; Riverside/Yahara; Sherman Av.; Jenifer/Livingston; N. Dickinson; N. Pinckney; Park St.; Few/Baldwin St.; Leitch/Jean St.; Linden Park Ph. 6; Blackhawk 8th Addition Ph. 4; Silicon Park; Allis Av.; Allied Dr.; E. Main – Thornton to Dickinson; Eton Ridge/Rugby Row/Vista; Truax Water Main Ext.; Orchard St.;

Projects under construction: Starkweather/Clyde Gallagher: Project complete except for Starkweather Creek crossing at Milwaukee St. Connection on east side of Starkweather waiting on the bridge contractor, should be complete by the end of the year.

Additional Notes: Linden Park Ph. 7 and Hawk's Ridge was canceled

Maintenance Projects

1. Received three bids to air burst Well 18 to re-establish capacity. Ordering new column for the deep well pump.
2. Ordered a replacement flow meter for Well 9.
3. The well at Burke Utility District #1 has been abandoned and the building has been demolished by WU crews.
4. Will be putting together a bid package for an altitude valve for the High Point Road Reservoir. (Well 26)

Unidirectional Flushing Operations and Sampling

1. Starting to get ready for the 2009 UDF program.
2. Will be analyzing the UDF data for 2008 as a part of the Graduate Research program.

Well 29 Iron and Manganese Filter

1. Contractor has finished up the backwash basins and successfully leak tested them.
2. Working on finishing the building footings and getting ready for the masons to mobilize the week of 12/15/08.
3. Filters to be delivered at the end of December. Project is on schedule and it is expected to be operational by May 2009.

Zone 4 Water Supply Augmentation

1. Water Utility Board referred the project to the January meeting.
2. Sent out announcements for a public meeting Wednesday December 17, 2008 at Sennet middle school on Pflaum Ave.

Arbor Hills Fire Flow

1. Water Utility Board referred the project to the January meeting.
2. Mayor's office is working with Alder Tim Bruer on the process to get the project moving forward.

Well 8 Iron and Manganese Mitigation

1. A draft scoping document, public participation plan, and communication plan is being circulated for comment.
2. Seven different alternatives will potentially be proposed when the scoping document is presented to the Board in January.

Zones 7 and 8 Supply Augmentation

1. A draft of the scoping document for the near west side supply augmentation study is being reviewed.
2. The scoping document will be presented to the Board in January and several alternatives will be considered.

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

1. No further progress this month.

Graduate Research Project

1. Analyzing the 2008 flushing data and evaluating the needs for 2009. Formulating research objectives and sampling protocols for the coming summer flushing. Discussing the study areas and what variables to consider.
2. Operating the continuous on-line turbidimeter on the east side until the end of the year. In January we will move it to the Well 13 area on the north side of the City to look at the impact of unlined pipe.

Training and Conferences

1. No training or conferences since the last report.