



Madison Water Utility

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MEMORANDUM

Date: August 23, 2012

To: Water Utility Board

From: Al Larson
Principal Engineer

Re: **Unit Well 7 Engineering Design Services
Consultant Recommendation to the Board**

Background

Per the recommendation of the East Side Water Supply project as confirmed by the Water Utility board on July 26, 2011, in consultation with the District 12 Alder, Satya Rhodes-Conway, and the Well 7 CAP, a filter will be designed and constructed to remove naturally occurring iron and manganese from Well 7 water. The filter will be constructed at the current location, 1613 N. Sherman. The estimated cost for design and construction of the facility is \$5,900,000. Construction is proposed to start in 2013.

Request for Proposal (RFP) and Advertising

A request for engineering design services was prepared for the Well 7 project. The RFP was electronically transmitted to 59 individuals working for over 30 different companies on August 2, 2012. The RFP was posted on the Utility web page and it was advertised on two separate days in the Wisconsin State Journal.

Proposals

Four proposals were received on August 16, 2012 and distributed that same day to a review committee of six Water Utility employees with expertise and knowledge of the project. Al Larson and Dennis Cawley from Engineering, Chuck Engelhart from Maintenance, Dan Rodefeld from Operations, Joe Grande from Water Quality and Joe DeMorett from Water Supply.

Review

The proposals were all reviewed and rated independently by each member of the committee. The committee then met on Tuesday August 21st and again on Wednesday August 22nd. The proposals were evaluated on ten subject areas as follows:

1. Project understanding
2. Iron and Manganese Filter Design Experience
3. Proposed Project Team
4. Schedule
5. Public Participation
6. Madison Process and Permitting Expertise
7. WDNR Permitting Expertise
8. Work Samples
9. Project Management experience and Cost Control
10. Intangibles

The proposals were ranked as follows:

	#1	#2	#3	#4	#5	#6	Total
Baxter Woodman	1	2	2	1	2	3	11
Strand Assoc.	2	1	1	2	1	1	8
SEH	3	4	4	3	3	4	21
AECOM	4	3	3	4	4	2	20

Submitted Hours and Costs are as follows:

	Hours	Costs
Baxter Woodman	4,555	\$599,950
Strand Assoc.	2,855	\$429,000
SEH	6,109	\$670,000
AECOM	2,958	\$365,100

Recommendation

Strand and Baxter Woodman clearly submitted more complete and comprehensive proposals and demonstrated superior qualifications for the work. The materials submitted and their stated understanding of the project and the needs of the Utility separated them from the field.

1. Strand has extensive experience and technical expertise in iron and manganese removal and they have an excellent track record in negotiating the Madison permitting and approval process. Strand has also successfully worked with project Citizen Advisory Panels and Utility staff in the completion of several projects including but not limited to BPS 118 and UW 15.
2. Baxter Woodman also demonstrated extensive experience and technical expertise in iron and manganese removal. BW has a local presence and understands the DNR and Madison permitting process. They recently completed the engineering work for the reconstruction of the Prairie Road elevated reservoir.

3. Short Elliot and Hendrickson presented a team with wide ranging expertise in iron and manganese filter designs. They successfully completed the Well 7 & 8 pilot testing and fully understand the project challenges. SEH ranked lower than the top two firms in public participation and Madison permitting and approval process.
4. AECOM presented a very qualified team with a broad range of experience in treatment plant design and construction. AECOM was ranked lower than the top two firms on project understanding, public participation, and the Madison permitting process.

Comparing the proposed hours and costs presented by Baxter Woodman and Strand Associates gives the advantage to Strand Associates. Strand's experience with the Madison process and the Utility gives them a comprehensive and deep understanding of what is needed to successfully complete the project.

Following a comprehensive evaluation of all materials submitted the committee unanimously recommends that Strand be retained for engineering design and construction services for the Well 7 iron and manganese filtration project.