

COUNCIL ACTION FORM

SUBJECT: PROFESSIONAL SERVICES AGREEMENT FOR WATER POLLUTION CONTROL FACILITY DISINFECTION DESIGN

BACKGROUND:

The 2011/12 Capital Improvements Plan (CIP) includes the design of a disinfection system for the effluent from the city's Water Pollution Control (WPC) Facility. On November 17, 2009, staff presented Council with the results of a study where several methods of disinfection were evaluated. The recommended method of disinfection was ultraviolet (UV) disinfection. The new NPDES permit includes a compliance schedule to construct a disinfection system. The study met the first milestone of the compliance schedule.

Staff negotiated the design scope of services and associated fees with Stanley Consultants who completed the evaluation study. Stanley Consultants were selected for the study phase through a rigorous proposal and interview process. Stanley Consultants demonstrated high technical competency with multiple disinfection technologies and an ability to work cooperatively with city staff supporting our mission and values throughout the study. Based on this experience, staff recommends retaining Stanley Consultants for the design phase of the project.

The professional services agreement is for design, "typical" permitting activities, and bidding of a UV disinfection system for effluent from the WPC Facility. Stanley has agreed to provide these services to the City for a fixed contract amount of \$233,940. A separate contract will be issued for construction services.

In addition to the fixed fee for design activities, staff has also requested Stanley to include an additional work task for extraordinary permitting issues, SRF applications, or equipment substitution evaluation. Stanley has agreed to perform these services on an hourly as-needed basis in an amount not to exceed \$21,000, and these tasks will only be performed with prior, written city authorization. It is staff's opinion that the extra services, specifically relating to "non-typical" permitting issues, will be necessary. The disinfection study took over a year to be approved by IDNR. Stanley may be required to provide extra information or attend multiple meetings to help move the disinfection project through IDNR procedures.

The 2009/10 adjusted CIP provides \$595,000 (which includes \$75,000 in carry-over from the previous year) for design and initial construction costs for this project. Funding for the construction of the project will come from State Revolving Fund loans. Staff

completed the application when the study was complete in 2009. The anticipated project expense and currently approved CIP budget is as follows:

Engineering		
Conceptual Study Phase	\$	63,076
Add'l IDNR Assistance – change order		12,000
Final Design Phase		233,940
Additional Permitting Assistance		21,000
Construction Phase		40,000
Engineering Subtotal	\$	370,016
Construction Costs*		
Building & Channel	\$	362,300
UV Equipment & Electrical		796,900
Site Work		155,200
Misc. Work & Division 1		683,100
Capital Cost Subtotal	\$	1,997,500
Legal, Admin, 10%		199,700
Design Contingency, 25%		499,400
Construction Costs Subtotal	\$	2,696,600
Total Estimated Project Cost	\$	3,066,616
Approved Budget		
FY 08/09 Carryover	\$	75,000
FY 09/10		520,000
FY 11/12		2,700,000
Total Budget	\$	3,295,000

* Construction cost estimates taken from "Wastewater Disinfection Technologies Study, City of Ames – Final;" December 2009; Stanley Consultants, Inc. and escalated 3.5% to account for longer than anticipated time to obtain facility plan approval.

ALTERNATIVES:

1. Award a professional services contract for the Water Pollution Control Facility disinfection design to Stanley Consultants of Muscatine, Iowa in the amount of \$233,940.00, with approval for extra hourly costs, if necessary, not to exceed \$21,000.00.
2. Do not award a professional services contract for the Water Pollution Control Facility disinfection design at this time.

MANAGER'S RECOMMENDED ACTION:

With the reclassification of the South Skunk River in 2007 to a Class A1 stream segment, disinfection is a mandatory requirement of the Water Pollution Control Facility under the NPDES permit issued in August 2010. In November 2009, Council directed staff to proceed with design of an ultraviolet light disinfection system as a voluntary project in advance of it becoming a mandatory requirement. The current-year CIP includes funds to begin the detailed design carried over from the previous fiscal year. The project is listed on the SRF intended use plan and indicates staff's intention to use the loan program for construction costs.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, thereby awarding a professional services contract for the Water Pollution Control Facility disinfection design to Stanley Consultants of Muscatine, Iowa for the amount of \$233,940.00, with approval for extra hourly costs, if necessary, not to exceed \$21,000.00.