



ARLINGTON COUNTY, VIRGINIA

**County Board Agenda Item
Meeting of October 18, 2008**

DATE: October 8, 2008

SUBJECT: Approval of the Award of a Contract for the Construction of Specified HVAC Components for the New Household Hazardous Material (HHM) Drop-off Facility; 538 South 31st Street, Arlington County Water Pollution Control Plant (WPCP), Invitation to Bid. No. 391-08; Project No. 7E-HHM-HVAC-1.

C. M. RECOMMENDATION:

1. Approve the award of Contract No. 391-08 to the lowest responsive and responsible bidder, Alpha Construction Company, Inc., for installation of specified heating and ventilation components at 538 South 31st Street, for the HHM Project in the total amount \$652,050.00. The Total amount includes a base contract price of \$567,000.00 and a contingency of \$85,050.00.
2. Authorize the Purchasing Agent to execute the Contract Documents for the HHM facility project, subject to legal review by the County Attorney.

ISSUE: County Board approval is needed to award Contract No. 391-08 to implement the HHM Project.

SUMMARY: The HHM Project involves the construction of the new Household Hazardous Material Drop-off Facility servicing Arlington County residents. WPCP is relocating their current drop-off services at 3402 South Glebe Road to 538 South 31st Street. The current location will then be used for the new secondary clarifiers under the PHASE 7B Upgrade and Expansion Project, part of Master Plan 2001 (MP01).

BACKGROUND: In January 2003, the County Board endorsed the WPCP MP01 to enable the County to meet current and future capacity demands for sewage treatment in the most environmentally appropriate manner. The capital improvements outlined by MP01 provide for redundancy and increased capacity sufficient for existing and future flows estimated to meet needs out to the years 2015 – 2020+. The MP01 projects will provide a positive environmental impact for Four Mile Run, the Potomac River, and the Chesapeake Bay, as well as address

County Manager: _____

County Attorney: _____

Staff: Larry Slattery, Department of Environmental Services, Water Pollution Control Bureau, Robert Griffin, DES, Victoria Greenfield, UEPD

external wet-weather bypasses, aging infrastructure, reliability, odor control, and security matters.

A Consent Order was entered into on March 23, 2005, with the DEQ State Water Control Board to address wet weather external bypasses and to set a compliance schedule to complete the construction of the various phases of the MP01 (reference County Board meeting November 16, 2004). The Consent Order affirms the County’s prior commitment to performing this work in a timely manner as well as places the County in priority status for obtaining low cost funds from the Virginia Department of Environmental Quality Water Facilities Revolving Loan Fund (VRLF), and provides partial relief from regulatory action concerning external bypasses. In addition, the County has executed a grant agreement with DEQ Water Quality Improvement Fund for funding of portions of the construction costs associated with nitrogen reduction which commits the County to meet an effluent concentration limitation of 3.0 mg/l for total nitrogen on an annual average basis. This is a reduction from the current Biological Nutrient Removal grant level of 8.0 mg/l. The grant also places the County in priority status for obtaining low cost funds from the VRLF. A Board Report dated September 13, 2008, regarding funding for MP01, states the following:

Summary of MP01 Funding Sources

Funding Source	Amount	Percentage of Cost
Virginia Department of Environmental Quality Water Facilities Revolving Loan Fund (VRLF)	\$290 million	51%
Water Quality Improvement Funds (WQIF)	63 million	11%
Interjurisdictional Partners	89 million	16%
General Obligation Bonds	126 million	22%
Total	\$568 million	100%

In order to accomplish the objectives of increasing capacity, redundancy, achieving total nitrogen of 3 mg/l, and minimizing external bypasses on a constrained site, it was determined that at least nine (9) secondary clarifiers were necessary. To install the ninth secondary clarifier necessitated the demolition of Lime Reaction Tank #2 (LRT#2). In order to perform the demolition of LRT#2 and install secondary clarifier #9, the current HHM service (located adjacent to LRT#2) must be relocated. Staff researched various options and determined that more cost effective customer service could be provided by locating this new facility on the north side of the plant, adjacent to 31st St. An added benefit to this location is that the service and facilities will be significantly above any flooding challenges and will provide customers safer access to the service.

Costs were minimized by retrofitting a portion of the existing Biological Sludge Processing Building, which was decommissioned approximately 10 years ago. Although the overall work was originally included in Phase 7B, the bid received in the past for performing this work was

determined to be excessive. The HHM portion of the work was separated from Phase 7B and assigned to be Phase 7E (Upgrade and Expansion Project Household Hazardous Materials). To control the costs, a significant amount of the work is being performed by in-house staff where appropriate, and work that is not within the WPCP capability either has been or will be contracted out.

DISCUSSION: This contract work includes, but it is not limited to work that the WPCP is unable to cost effectively perform: five (5) exhaust fans, one (1) supply fan, four (4) heating and ventilating air handling units, ductwork and pipe connection to the existing hot water supply and return. The expected contract time is 90 calendar days and will begin as soon as the contract is executed.

This contract work excludes electrical, mechanical, civil, structural, architectural, instrumentation and fire protection installation. The building renovation; civil, structural and architectural, is currently being expedited by a contract awarded by the Board on September 13, 2008 (369-08). Electrical and mechanical installation is being performed in-house. Instrumentation and Fire Protection will be provided under an existing Arlington County blanket contract (AccuTech Systems Inc./ASG Security, LLC).

FISCAL IMPACT: This project is included in the overall budget for the Master Plan 2001 upgrade and expansion project at the WPCP, and will be funded out of general obligation bond funds. The debt service costs are included in the annual projections for the Water Sewer Rate, which ultimately funds the repayment of the debt service associated with MP01. Rate increases are projected to range from 10%-15% per year for several years for funding of all Utilities Fund projects and operating expenses. The account number for this project is 530.437405.43541.WHHM.P06.000.