

**PUBLIC WORKS DEPARTMENT
MEMORANDUM #2010 – 65**

DATE: December 16, 2010
TO: Honorable Mayor Joyce Downing and City Council Members
FROM: William A. Simmons, City Manager *WAS*
David H. Willett, Director of Public Works *R*
Shawn Cordsen, Director of Finance *SC*
SUBJECT: CR-167 Gas Chromatograph/Mass Spectrometer

BACKGROUND

A Gas Chromatograph with Mass Spectrometer (GC/MS) is an advanced piece of analytical equipment used to measure the quantity of organic compounds present in finished drinking water, specifically Trihalomethanes (THM) and Haloacetic Acids (HAAs). Both of these groups of compounds are disinfection byproducts (DBP) which form when chlorine from the treatment process interacts with organic carbon present in the water. These compounds are known carcinogens and are regulated under the Safe Drinking Water Act and the Colorado Primary Drinking Water Regulations for the protection of human health.

At the September 23, 2010 City Council meeting, staff was given authorization to prepare bid documents for the purchase of a new GC/MS. The bids were requested to include a Gas Chromatograph, Mass Spectrometer, purge and trap autosampler system; and computer, software, and equipment training. All components were included in the bid to allow for the equipment to function as a complete unit. There are two different types of Mass Spectrometer technologies available that meet the necessary testing requirements. As both of these technologies were acceptable, bids for either type of Mass Spectrometer were requested.

On November 12, 2010, the City received three bids for the GC/MS project. The lowest bid was Thermo Scientific, however in the exceptions listed with the bid they stated that they would not be supplying a purge and trap autosampler system. A purge and trap autosampler system is essential to completing the testing required by the Environmental Protection Agency (EPA) method 524. Because they excluded a major component that was required per the bid documents, their bid was disqualified. The second lowest bid meeting all the requirements was Agilent Technologies, with a total bid price of \$128,417.60.

BUDGET/TIME IMPLICATIONS

The approved budget for this project, as stated in the 2010 Capital Improvement Program (CIP) Water and Wastewater Fund, is \$120,000. The total project cost is \$128,417.60 of which \$120,000 will be funded from the original project allocation. Staff recommends using unencumbered funds from the Water and Wastewater Fund/Capital Improvement Program, Inline Water Sampling Station Project to fund the balance of \$8,417.60. The Inline Water Sampling Station project is significantly under budget, due to the availability of a new and less expensive technology.

RECOMMENDATION

Attached to this memorandum is a Resolution that, if approved, would authorize the City Manager to issue a Purchase Order to Agilent Technologies in the amount of \$128,417.60 for the purchase of all equipment, software, hardware and installation for the implementation of the GC/MS equipment. Staff recommends approval of this Resolution.

STAFF REFERENCE

David Willett, P.E., Director of Public Works
Tamara Moon-Carlson, Lead Laboratory Analyst

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CITY OF NORTHGLENN
FORMAL BID SUMMARY

BID NUMBER RFQ 2010-41

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BID NAME Gas Chromatograph/Mass Spectrometer (GC/MS)

DEPARTMENT: Water Treatment Plant

	Broker Daltonics Inc	Thermo Scientific	Agilent Technologies Inc		
DATE DUE 11/12/2010	BID RECEIVED:	BID RECEIVED:	BID RECEIVED:	BID RECEIVED:	BID RECEIVED:
	DATE: 11/12/2010	DATE: 11/10/2010	DATE: 11/12/2010	DATE:	DATE:
TIME: 2:00 PM	TIME: 11:47 AM	TIME: 4:19 PM	TIME: 9:12 AM	TIME:	TIME:
Gas Chromatograph / Mass Spectrometer (Ion Trap)	No Bid	79877.00	128417.00		
Alternate Gas Chromatograph / Mass Spectrometer (triple)	142576.62	176842.00	149539.20		

Kathleen Karamula
Buyer

City Clerk

11/12/2010
Date

on line quote.

SPONSORED BY: MAYOR DOWNING

COUNCILMAN'S RESOLUTION

RESOLUTION NO.

No. CR-167
Series of 2010

Series of 2010

A RESOLUTION TO AUTHORIZE THE CITY MANAGER TO ISSUE A PURCHASE ORDER TO AGILENT TECHNOLOGIES IN AN AMOUNT NOT TO EXCEED \$128,417.60 FOR THE PURCHASE OF EQUIPMENT FOR THE GAS CHROMATOGRAPH/MASS SPECTROMETER PROJECT

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF NORTHGLENN, COLORADO, THAT:

Section 1. The City Manager is hereby authorized to issue a Purchase Order to Agilent Technologies in an amount not to exceed \$128,417.60 for the purchase of equipment for the Gas Chromatograph/Mass Spectrometer Project.

DATED at Northglenn, Colorado, this ____ day of _____, 2010.

JOYCE DOWNING
Mayor

ATTEST:

JOHANNA SMALL, CMC
City Clerk

APPROVED AS TO FORM:

COREY Y. HOFFMANN
City Attorney