



CITY COUNCIL AGENDA REPORT

MEETING DATE: FEBRUARY 17, 2004

ITEM NUMBER:

SUBJECT: PROFESSIONAL ENGINEERING SERVICES FOR STORM WATER MONITORING AND SAMPLING PROGRAM

DATE: FEBRUARY 5, 2004

FROM: PUBLIC SERVICES DEPARTMENT/ENGINEERING DIVISION

PRESENTATION BY: WILLIAM J. MORRIS, DIRECTOR OF PUBLIC SERVICES

**FOR FURTHER INFORMATION CONTACT: ERNESTO MUNOZ, CITY ENGINEER
AT (714) 754-5173**

RECOMMENDED ACTION:

Award a contract to Geomatrix Consultants, Inc. (Geomatrix), 330 West Bay Street, Suite 140, Costa Mesa, CA 92627, in an amount not to exceed \$208,627, for flow monitoring and sampling services, and authorize the Mayor and the Deputy City Clerk to execute the Professional Services Agreement.

BACKGROUND:

The purpose of this flow monitoring is to assist the City in determining dry weather flows and specific pollutant parameter concentrations present in key storm system outfall or node locations within and around the perimeter of the City. The results of this study are intended to satisfy the "Core Monitoring" portion of the Long-Term Mass Emissions Monitoring conducted within the City area, in partial fulfillment of the Regional Water Quality Control Board Order No. R8-2002-0010 under NPDES Permit No. CAS618030.

ANALYSIS:

The general City goals for this project are to identify and prioritize the storm drain components that present the best opportunity to improve water quality. This will concentrate the City's limited resources in areas where the largest improvement may be obtained. The goals along the project course are as follows:

- Investigate every storm water point of entry into the City Storm Drain System and every point of discharge from the system. This investigation will serve as a baseline inventory of the dry weather flow at each major concentration in the City's Municipal Separate Storm Sewer System (MS4).
- The points with identifiable dry weather flow will be selected for the installation of a flow monitor. This monitor will compile one week's flow data to determine the daily and weekly flow pattern of that site.
- The sites with adequate flow to allow automatic sampling will be outfitted with an automatic sampler.

- The lab analysis of the samples will provide pollutant concentrations for the standard pollutants of concern.

The ultimate goal of this project is to serve as a tool to identify and reduce pollutant loads for the City's storm drain system.

Staff advertised the project for flow monitoring and sampling on September 12, 2003, and received four proposals. A panel of City staff members from the Public Services Department then evaluated the proposals submitted by the consulting firms.

Staff has carefully reviewed the proposals for engineering services and finds that Geomatrix is well qualified to perform the professional services. Proposals were reviewed for compliance with the City's Request for Proposals; project understanding and scope of work; related experience; experience of project team; and associated issues. During the evaluation process, Geomatrix presented their firm as having a thorough understanding of the project, and demonstrated substantial experience and technical ability to perform the outlined scope of work. They have indicated a total of eight months is required to complete the work.

ALTERNATIVES CONSIDERED:

An alternative to this Council action would be to not award a flow monitoring and sampling services contract for the stated project and perform the work with City staff. Due to the type of project and the expertise required to perform the work, a significant delay and reduction in the quality of the project would be experienced if staff were to perform the tasks in-house. The reduction in the quality would jeopardize the goals of the project and reduce the ability to prioritize future system improvements, therefore, this alternative is not recommended.

The Council may also consider not awarding this contract and delay the tasks associated with the contract. This action is not recommended, as delaying the tasks would increase the risk of the City falling behind the other jurisdictions in the National Pollutant Discharge Elimination System program and increasing the potential for fines from the Santa Ana Regional Water Quality Control Board.

FISCAL REVIEW:

The total funds needed to cover the flow monitoring and sampling costs are \$208,627. Funding for this project is allocated in the current year's budget for National Pollutant Discharge Elimination System costs.

LEGAL REVIEW:

The City Attorney has reviewed and approved the attached Professional Services Agreement (Attachment 1) as to content and form.

CONCLUSION:

It is recommended that the City Council award the design services contract to Geomatrix Consultants, Inc., in an amount not to exceed \$208,627 and authorize the Mayor and Deputy City Clerk to execute the Professional Services Agreement.

ERNESTO MUNOZ
City Engineer

WILLIAM J. MORRIS
Director of Public Services

MARC R. PUCKETT
Director of Finance

Attachment: [1-Professional Services Agreement](#)

Distribution: City Manager
 City Attorney
 Deputy City Clerk
 Director of Finance
 Staff
 File

Monitoring Engineering Services Report

1/29/04

9:00 a.m.