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APPROVED
BY THE CITY COUNCIL
JUL 1 1997

DEPARTMENT OF
PUBLIC WORKS
SOLID WASTE DIVISION

CITY OF SACRAMENTO
CALIFORNIA

OFFICE OF THE
CITY CLERK
A697-109

921 TENTH STREET
SUITE 500
SACRAMENTO, CA
95814-2715

ADMINISTRATION
PHONE 916-264-7043
FAX 916-264-7771

CUSTOMER SERVICE
PHONE 916-264-5757

May 19, 1997

City Council
Sacramento, California

Honorable Members in Session:

SUBJECT: APPROVAL FOR PURCHASE OF COMPUTERIZED ROUTING SYSTEM
AND COMPREHENSIVE SOLID WASTE REROUTE

LOCATION AND COUNCIL DISTRICT: City

RECOMMENDATION:

This report recommends that City Council adopt the attached resolution which:

- Authorizes the City Manager to execute a contract with Logiroute Computer Systems, Inc. for the licensing of its GeoRoute Municipal Software product.

CONTACT PERSON: Cedar Kehoe, Collection Superintendent, Solid Waste
264-7043

FOR COUNCIL MEETING OF: July 1, 1997

SUMMARY:

This report recommends City Council adoption of the attached resolution to authorize the City Manager to execute a contract with Logiroute Computer Systems, Inc. for the licensing of its GeoRoute Municipal Software product.

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COMMITTEE/COMMISSION ACTION:

None required.

BACKGROUND INFORMATION:

The City's Solid Waste Division is currently in the process of rerouting each of its four collection operations (solid waste, recycling, garden refuse, and street sweeping). The division, which has always provided residential solid waste collection and recycling services, recently took over responsibility for garden refuse collection and street sweeping operations from the Street Division. The major forces driving this reroute are:

- The addition of Garden Refuse and Street Sweeping to Solid Waste;
- Desire to more effectively coordinate service scheduling to improve customer service; and
- The goal of reducing collection costs to keep rates low.

Residential solid waste and recycling routes are currently spread throughout the City on a daily basis. Garden refuse and street sweeping routes, on the other hand, are currently divided into two distinct and largely independent north and south divisions with all of the routes of each division operating in the same general area of the City on a given day, sweeping across the City over the course of the week. Under the current routing structure, however, it is difficult to coordinate scheduling of all services. With the new routing system all of the operations will be coordinated across the city. The four operations will be scheduled sequentially:

- Garden refuse (day 1)
- Street sweeping (day 2)
- Solid Waste and Recycling (day 3)

The sequencing of routes in this manner will help to minimize conflicts between the four operations and provide for an increased level of customer service. Staff will return to City Council in approximately one month with a comprehensive recommendation on how the City will be re-routed.

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As part of the rerouting effort the City investigated the potential for using GIS-based software to assist with the routing project. More than 50 companies who offer software for solid waste industry applications were identified and contacted. That effort identified three potential software providers, Bowne-Distinct of Columbia, Maryland, which has been marketing its *RouteSmart* software to the solid waste industry for a number of years, Logiroute of Montreal, Canada, whose *GeoRoute* software is just now being made available to the solid waste industry, and Caps Logistics, of Atlanta, Georgia. Caps Logistics was subsequently removed from consideration because they could not provide an off-the-shelf product which could be tested without significant customization.

Based on those findings the City signed contracts with both Bowne-Distinct and Logiroute, allowing for six-month trials of their software at the City's collection operations offices. A third option to use the City's GIS system along with Arc View software, which is not specifically a routing software, was also considered.

Due to the strength of its travel path generating capabilities (i.e., its ability to develop specific vehicle paths for each of the daily routes), its provision of a "time window option," which can account for various time-of-service restrictions, and the limited number of vendors marketing this type of software, it is staff's recommendation that the City consider this as a sole source and purchase Logiroute's *GeoRoute* software.

The Council should be aware that Sacramento County expects to purchase the *RouteSmart* software. The County indicated that they felt *RouteSmart* better served its needs. City staff acknowledges that *RouteSmart* does provide a quality product but feels quite certain that for the Solid Waste Division's needs, Logiroute is clearly a superior product.

The Solid Waste Division will implement an extensive outreach program to educate all the residents of the City of Sacramento about this enhancement of services. We will be attending community meetings, extending our phone hours, mailing flyers (utility inserts), and providing information in local newspapers in order to educate our customers.

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FINANCIAL CONSIDERATIONS:

The software adaptations, license fee, and services will cost the City in an amount not-to-exceed \$82,000.

As a result of the routing effort and the use of the Logiroute software, the City expects to save the equivalent of 1.5 solid waste routes, and five garden refuse routes (a total of 11.5 FTE). No actual position reductions are expected; however, since Solid Waste currently has many vacancies, the staff that is made available through the reroute will be re-assigned to reduce overtime. It is expected that the reduction in overtime costs will more than offset the cost of the software in the first year alone. In addition, a 3 percent reduction in the number of vehicle miles is projected due to more efficient routing.

In addition further savings may be realized in the future as a result of:

- Reduced garden refuse collection costs as a result of seasonal adjustments in staffing to more effectively accommodate varying workloads.
- Ongoing refinements to the routing system, whereby we gain increased productivity and efficiency.
- Decreased staff time related to future routing efforts.

ENVIRONMENTAL CONSIDERATIONS:

There are no significant effects on the environment associated with approval of a contract with Logiroute, since the contract will allow the City to reduce the number of Solid Waste Division vehicle miles, and thereby reduce any impacts associated with the operation of these vehicles, through more efficient routing. No environmental review is required under Section 15061(b)(3) of the California Environmental Quality Act Guidelines.

POLICY CONSIDERATIONS:

The process described above is intended to provide a higher level of service, better sequencing of services, with the added advantage of keeping our costs down as a result of being more cost effective.

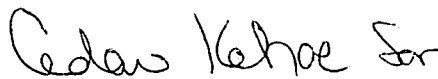
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The process does require the majority of the residents of the City to change the days they regularly receive their services. Understanding that change is difficult for people, we will work hard to get the citizens to understand how this change will in fact improve customer service and keep costs from increasing. All of our customers will be granted a grace period to learn their new service days.

MBE/WBE

City staff were unable to identify any MBE/WBE firms who provide GIS based solid waste routing programs. Logiroute is not a MBE/WBE firm.

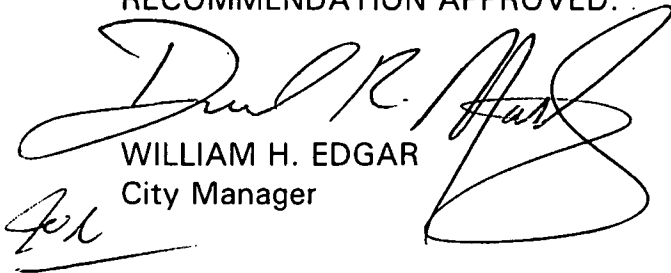
Respectfully submitted,



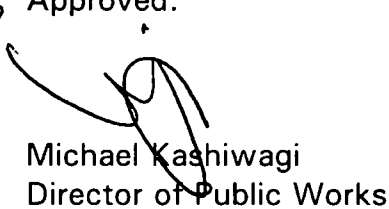
Reina J. Schwartz
Manager, Solid Waste

RECOMMENDATION APPROVED:

Approved:



WILLIAM H. EDGAR
City Manager



Michael Kashiwagi
Director of Public Works

Attachment: Logiroute Contract

APPROVED
BY THE CITY COUNCIL

JUL 1 1997

OFFICE OF THE
CITY CLERK

RESOLUTION NO. 97-392

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

**RESOLUTION
APPROVING PURCHASE OF COMPUTERIZED ROUTING SYSTEM**

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

- The City Manager is hereby authorized to execute a contract with Logiroute Computer Systems, Inc. for the licensing of its GeoRoute Municipal Software product and services in an amount not-to-exceed \$82,000.

MAYOR

ATTEST:

CITY CLERK

FOR CITY CLERK USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____