

**CITY COUNCIL
COMMUNICATION:**

03-044

AGENDA:

JANUARY 27, 2003

SUBJECT:

WRA METRO SOLID
WASTE BIOSOLIDS
STORAGE AREA

TYPE:

RESOLUTION
ORDINANCE
RECEIVE/FILE

SUBMITTED BY:

JOHN MCKEE, P.E.
ACTING CITY
ENGINEER

WILLIAM G. STOWE
PUBLIC WORKS
DIRECTOR

ITEM 12

**OFFICE OF THE CITY MANAGER
CITY OF DES MOINES, IOWA**

SYNOPSIS —

A Professional Services Agreement has been negotiated with the engineering firm of Barker Lemar Engineering Consultants (Tracy S. Lemar, CEO, 1300 Cummins Road, Suite 201, Des Moines, Iowa 50315) to provide Design and Construction Phase Services for the WRA Metro Solid Waste Biosolids Storage Area project, Activity ID 01-2003-011. Staff is requesting approval of these services.

FISCAL IMPACT —

Per this agreement, costs are not to exceed \$82,900. Funding for this project is provided for on page WRA3 of the 2002-03 CIP. WRF – Additional Personnel and Residuals Facilities, Account 542010, Fund: EN267, Org: ENG990000, Project: WRA 063, Activity ID 01-2003-011.

RECOMMENDATION —

Approval of the proposed Engineering Agreement with Barker Lemar Engineering Consultants.

BACKGROUND —

On April 2, 2001 by Roll Call 01-951, the City Council authorized award of contract to Story Construction for construction of the WRF Biosolids Storage Facility. On April 18, 2001, a Notice to Proceed was issued for the Biosolids Storage Facility. On January 21, 2002 the Wastewater Reclamation Facility began using the facility. Final acceptance of the project was on December 16, 2002 by Roll Call 02-2868.

On July 22, 2002 a group from the Chesterfield Neighborhood Association appeared before the Des Moines City Council to express their concerns over the facility and its distance from residences. The Des Moines City Council referred the matter to the City Manager and the Wastewater Reclamation Authority Management Agency. On September 3, 2002 at a special meeting of the Des Moines Wastewater Reclamation Authority, a committee was formed to study the issue of the Biosolids Storage Facility and its impact on the Chesterfield Neighborhood.

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At the November 18, 2002 Wastewater Reclamation Authority Management Agency meeting, the Wastewater Reclamation Facility (WRF) staff agreed to cease use of the Biosolids Storage Facility until the separation issue is resolved. Biosolids are currently being stored in uncovered areas that were used prior to construction of the new facility. As of November 28, 2002 the newly constructed Biosolids Storage Facility was no longer being used to store Biosolids.

The areas currently being used have a capacity sufficient for storing three to four weeks of biosolids. This has been satisfactory through the dry fall and winter months of 2002/3 as it has been possible to land apply on a continual basis because of favorable conditions. The storage areas will not be adequate if a wet spring is experienced or after spring planting when large areas of cropland are not available for land application.

The Wastewater Reclamation Facility staff began looking for alternate Storage sites for use during periods when continual land application is not possible. Two alternatives were explored. Storage on private land and storage at the Des Moines Metropolitan Waste Authority's (MWA) Landfill. The MWA Landfill alternative was selected because it maintains the separation distance that will minimize impact on the public.

Once the location was chosen, the WRF staff worked closely with the MWA Landfill staff to develop an alternative that would be acceptable to the operational staff of both facilities. A preliminary site has been selected and it will be necessary to complete a design that complies with IDNR Solid Waste and Land Application Rules. The interim facility will consist of an asphalt surface and appropriate drainage facilities to contain runoff. The total area of the interim facility will be approximately 1.2 acres.

The Professional Engineering Firm of Barker Lemar Engineering Consultants was selected to complete the Design of the WRA/Metro Waste Authority Biosolids Storage Area. Barker Lemar has worked on several Metropolitan Waste Authority projects, and is familiar with the needs of the MWA, and is highly recommended by the MWA.

An agreement has been negotiated with Barker Lemar that includes design of the facility and services during the Construction Phase of the project. Staff requests approval of the design and construction phase services agreement in an amount not to exceed \$82,900.

