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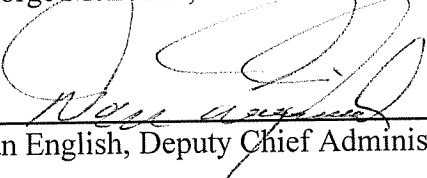
Halifax Regional Council
February 3, 2004

TO: Mayor Kelly and Members of Halifax Regional Council

SUBMITTED BY:



George McLellan, Chief Administrative Officer



Dan English, Deputy Chief Administrative Officer

DATE: January 27, 2004

SUBJECT: Aerotech STP Upgrade/Biosolids Dewatering Facility

ORIGIN

Halifax Regional Council: Consultant Award - Aerotech STP Upgrade/Biosolids Dewatering Facility, RFP 03-317, May 13, 2003.

RECOMMENDATION

It is recommended that Regional Council approve the amount of \$76,000 plus net HST for a total of \$80,887 to Dillon Consulting/ABL Environmental for additional design services. Funding is available from Capital Account No. CSU00138, Aerotech Sewage Treatment Plant Upgrade/Biosolids Dewatering Facility, as outlined in the Budget Implications of this report.

BACKGROUND

On May 13, 2003, Council awarded the sum of \$293,206 plus net HST for a total of \$312,056 to Dillon Consulting /ABL Environmental to provide design services for the Aerotech Park Sewage Treatment Plant Upgrade and the Central Biosolids Dewatering Facility, funding from Capital Account # CSU00138. The total capital cost for the Sewage Treatment Plant upgrade portion is expected to be \$3.0M. with funding originating from Q122, Wastewater Treatment Reserve.

DISCUSSION

The Aerotech STP Upgrade includes replacing the original Rotating Biological Contactor (RBC) secondary treatment stage with a Sequencing Batch Reactor (SBR) process. The present design costs are based upon an equipment supplied or proprietary SBR system. Staff and the consultants have evaluated the technical and cost advantages of proceeding with a custom designed system by Dillon/ABL.

ABL Environmental has designed SBR systems for a number of Nova Scotia communities, private industry and municipalities, for example: Pugwash, Brookfield, Baddeck, Sobey's (Tantallon) and West Hants. HRM staff visited a number of facilities for on site evaluation purposes and to hold discussions with respective operations staff. Positive feedback was received. Custom systems provide a greater degree of operations control especially related to software process control changes.

A cost analysis comparing the proprietary vs custom SBR system indicated approximately a project savings of \$170,000 in equipment and construction costs. This figure is net of the additional \$80,888 applied to design costs. The additional design related activities include process design development, system layout, equipment preselection, control and instrumentation design and design reviews.

BUDGET IMPLICATIONS

Based on the price of \$76,000 plus net HST for a total of \$80,887, funding is available in the approved Capital Budget under Account No. CSU00138, Aerotech STP Upgrade/Central Biosolids Dewatering Facility. The budget availability has been approved by Financial Services.

**Budget Summary: Capital Account CSU00138, Aerotech STP Upgrade/Biosolids
Dewatering Facility**

Cumulative Unspent Budget	\$1,137,632
Additional Design Services for RFP 03-317	<u>\$ 80,887</u>
	\$1,056,745

FINANCIAL MANAGEMENT POLICIES / BUSINESS PLAN

This report complies with the Municipality's Multi-Year Financial Strategy, the approved Operating, Capital and Reserve budgets, policies and procedures regarding withdrawals from the utilization of Capital and Operating reserves, as well as any relevant legislation.


ALTERNATIVES

Maintain the status quo, which would result losing the opportunity to generate capital savings and operating benefits of a custom designed SBR system.

ATTACHMENTS

Additional copies of this report, and information on its status, can be obtained by contacting the Office of the Municipal Clerk at 490-4210, or Fax 490-4208.

Report Prepared by: Alan Brady, Manager of Wastewater Treatment

Report Approved by: 
Brad Anguish, P.Eng., Director of Environmental Services