

1. BRITANNIA AND LEMIEUX WATER PURIFICATION PLANTS, TURBIDITY CONTROL  
CONSULTANT APPOINTMENT CC-6209

### **COMMITTEE RECOMMENDATION**

**That Council approve Phase 2 engineering services - construction administration services, SCADA programming and commissioning assistance to CH2M Gore & Storrie Limited (CG&S), Ottawa, for the Lemieux Island Water Purification Plant component of the Turbidity Control Project, in the amount of \$360,000, bringing the total contract provision to \$960,000.**

### **DOCUMENTATION:**

1. Environment and Transportation Commissioner's report dated 10 Oct 98 is immediately attached.
2. Extract of Draft Corporate Services and Economic Development Committee Minute, 03 Nov 98, immediately follows the report and includes a record of the vote.

REGION OF OTTAWA CARLETON  
RÉGION D'OTTAWA CARLETON

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REPORT  
RAPPORT

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Our File/N/Réf.           **50 18-97-0003-V**  
Your File/V/Réf.

DATE                        10 October 1998

TO/DEST.                 Co-ordinator  
Corporate Services and Economic Development Committee

FROM/EXP.                Environment and Transportation Commissioner

SUBJECT/OBJET           **BRITANNIA AND LEMIEUX WATER PURIFICATION  
PLANTS, TURBIDITY CONTROL,  
CONSULTANT APPOINTMENT CC-6209**

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### **DEPARTMENTAL RECOMMENDATION**

**That the Corporate Services and Economic Development Committee and Council approve Phase 2 engineering services - construction administration services, SCADA programming and commissioning assistance to CH2M Gore & Storrie Limited (CG&S), Ottawa, for the Lemieux Island Water Purification Plant component of the Turbidity Control Project, in the amount of \$360,000, bringing the total contract provision to \$960,000.**

### **BACKGROUND**

The Turbidity Control Project will enhance the quality of the filtered water by eliminating turbidity (particle) spikes that occur following filter backwashing. This is accomplished by discharging the filtered water to waste during the initial run of the filters as the filter beds resettle and acquire their maximum efficiency. The project involves modifying the filter systems at both water purification plants by changing the existing piping and valving and implementing automated control.

The project has been scheduled in two parts with the Lemieux Island Water Purification Plant works to be completed first. The design and tendering for this first part will be completed in November 1998 and construction is scheduled to be completed by midsummer 1999. The Britannia Water Purification Plant detailed design is planned to begin in late 1999 with construction to follow later in the year 2000.

This report seeks authorization for Phase 2 of the engineering services requirements for the Lemieux Island Water Purification Plant component including construction administration services, SCADA programming, and commissioning assistance. The authorization for the third phase engineering services for the Britannia Water Purification Plant will be the subject of a future report.

### RATIONALE

Phase 1 engineering services (approved by Regional Council in February 1997) for the Turbidity Control Project which included the preliminary and detailed design of the modifications required to the 18 Britannia and 12 Lemieux filters and their related components and control systems.

The detailed design services phase of the Lemieux Island portion of the project has now been successfully completed and the project is ready to proceed to tendering. CG&S is qualified to undertake Phase 2 of the project, engineering services which will include professional services for technical assistance, shop drawing review, supervision of construction activities, completion of the SCADA programming, completion of as-built drawings, staff training and commissioning assistance to bring the modified filter system successfully on-line. The construction activities must be carefully scheduled and co-ordinated as the work on the filters must proceed while the plant is kept in operation. CG&S has broad experience in water treatment plant design and process engineering coupled with extensive knowledge of and familiarity with the Region's water purification plants. Their proposal for Phase 2 services was evaluated on the basis of level of service, understanding of the project, the qualifications of the proposed design team and overall value to the Region.

A contract provision of \$360,000 is recommended, including a contingency allowance for unforeseen variations and G.S.T. for a total revised contract provision of \$960,000.

### CONSULTATION

The public consultation process is not applicable.

### EXPENDITURE JUSTIFICATION

Improvements to the finished potable water quality will reduce turbidity and provide our customers with a secure and high quality potable water system.

FINANCIAL STATEMENT

	<u>922-41762</u>
	\$
Proposed Budget to Date	\$3,240,000
Total Paid and Committed	<u>(677,263)</u>
Balance Available	\$2,562,737
THIS REQUEST	<u>(360,000)</u>
Balance Remaining	<u>\$2,202,737</u>

Funds will be provided in the 1998 Capital Budget, Account No. 922-41762, Water Purification Plants Turbidity Control (Reference page 305).

*Approved by  
M.J.E. Sheflin, P.Eng.*

MS/jw

FINANCE DEPARTMENT COMMENT

Funds are available as indicated.

*Approved by T. Fedec  
on behalf of the Finance Commissioner*

Extract of Draft Minute  
Corporate Services and  
Economic Development Committee  
03 November 1998

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- Environment and Transportation Commissioner's report dated 10 Oct 98

Councillor Stewart referenced the statement in the report that read the "contract provision of \$360,000 is recommended, including a contingency allowance for unforeseen variations and GST for a total revised contract provision of \$960,000." J. Miller, Director, Engineering Division, agreed the statement was not clear and confirmed the contingency was actually \$33,000, less than 10%.

In response to a question from Councillor Hill, Mr. Miller explained the consultant appointment was for the construction administration component for the work at Lemieux Island. He noted the prior component had been for the preliminary and detailed design for both Lemieux Island and Britannia Water Purification Plants.

Mr. Miller provided further clarification to Councillors Cantin and Stewart regarding the proposed budget to date, the total design and construction costs for the projects involving both Lemieux Island and Britannia, and the consultant costs.

**That the Corporate Services and Economic Development Committee and Council approve Phase 2 engineering services - construction administration services, SCADA programming and commissioning assistance to CH2M Gore & Storrie Limited (CG&S), Ottawa, for the Lemieux Island Water Purification Plant component of the Turbidity Control Project, in the amount of \$360,000, bringing the total contract provision to \$960,000.**

CARRIED  
(R. Cantin dissented)