

1. R.C.M.P. PULLBACK AND PUMPING STATION UPGRADE:  
TEMPORARY FLOW MONITORING STUDY  
CONTRACT NO. CA-9637

**COMMITTEE RECOMMENDATION**

**That Council approve the award of Phase 1 for the R.C.M.P. Pullback and Pumping Station Upgrade Study (Temporary Flow Monitoring) to G.A. Clark and Associates, Nepean, for a total contract provision of \$78,000.**

**DOCUMENTATION:**

1. Environment and Transportation Commissioner's report dated 30 Mar 99 is immediately attached.

REGION OF OTTAWA-CARLETON  
RÉGION D'OTTAWA-CARLETON

REPORT  
RAPPORT

Our File/N/Réf.                   **50 49-99-3042**  
Your File/V/Réf.

DATE                                30 March 1999

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

FROM/EXP.                        Environment and Transportation Commissioner

SUBJECT/OBJET                 **R.C.M.P. PULLBACK AND PUMPING STATION UPGRADE:  
TEMPORARY FLOW MONITORING STUDY  
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**DEPARTMENTAL RECOMMENDATION**

**That the Corporate Services and Economic Development Committee and Council approve the award of Phase 1 for the R.C.M.P. Pullback and Pumping Station Upgrade Study (Temporary Flow Monitoring) to G.A. Clark and Associates, Nepean, for a total contract provision of \$78,000.**

**INTRODUCTION**

The Sandridge Road Sewer (also known as the R.C.M.P. Pullback) conveys sewage from the Manor Park residential area and the adjacent R.C.M.P. "N" Division facilities towards the Hemlock Lake sewage pumping station located to the west. The drainage area, which straddles the City of Ottawa and the Village of Rockcliffe, is served by an old network of combined sewers. Combined sewers convey both sanitary wastewater and storm runoff in a common conduit. In heavy rain storms, basement flooding and/or overflows to the Ottawa River can sometimes occur.

The Sandridge Road Sewer is in poor condition and is experiencing high rates of solids accumulation, resulting in the need for frequent cleaning. Furthermore, the sewer is undersized, resulting in frequent combined sewer overflows to the Ottawa River. Replacement of the Sandridge Road Sewer and modifications to the combined sewer overflow regulators in the area are required. The design of the upgrades is identified in the Capital Budget (project number 932-42063, page 298) and will be conducted in two phases. Phase 1 will involve detailed flow monitoring of the inputs to the Sandridge Road Sewer. The flow monitoring information is required for Phase 2, which will involve data analysis and the functional design of the upgrades. Only Phase 1 is the subject of this report.

The proposed monitoring is in keeping with the objectives of the Flow Management Program recommended in the Region's Wastewater Master Plan. This program will explore alternatives to address excessive extraneous and drainage flow contributions to the wastewater collection system. Furthermore, the Flow Management Program is critical for ensuring compliance with the Ministry of the Environment's (MOE) Combined Sewer Overflow Policy (Procedure F-5-5) regulating the frequency of sewage overflows to the environment.

In order to obtain reliable information on the flows entering the Sandridge Road Sewer, a total of six monitoring sites have been proposed. In addition to these sites, Regional staff will be monitoring flows from the R.C.M.P. pumping station for the purposes of this study. To ensure a high degree of data accuracy, the successful consultants are required to carefully field calibrate state-of-the-art equipment, and to ensure a suitable level of data redundancy.

The proposed monitoring will be carried out over a four month period but may be extended to a maximum of six months, depending on the quality of the data obtained. It is critical that a range of flow conditions, resulting from a wide range of rainfall events, be captured in the monitoring program.

## DISCUSSION

Requests for proposals were forwarded to the following three local consulting firms: Stantec Consulting (Ottawa), G.A. Clark & Associates (Nepean), and J.L. Richards & Associates Ltd. (Ottawa).

The selection criteria outlined in the Request for Proposal included:

- company experience and specialization
- understanding of objectives
- approach and methodology
- ability to deliver
- completeness of the proposal submission
- value for proposed service

Based on the above evaluation criteria, it is recommended that the study be awarded to G.A. Clark and Associates. This company submitted a proposal which meets all of the study requirements and which presented a cost-effective monitoring strategy which best suits the anticipated flow conditions. G.A. Clark has a proven track record, and staff on the study team have conducted a significant number of similar flow monitoring projects for both the Region and local municipalities.

## CONSULTATION

The monitoring of flow in the Sandridge Sewer is related to operational needs and is therefore not subject to public consultation.

## EXPENDITURE JUSTIFICATION

Accurate wastewater flow monitoring information in critical areas is needed in order to develop a comprehensive Flow Management Program and to ensure that the MOE Combined Sewer Overflow Policy (Procedure F-5-5) is met. The Flow Management Program will explore alternatives to address excessive extraneous and drainage flow contributions to the Region's wastewater collection system, and identify priorities for optimizing the system.

In particular, the monitoring information obtained from this study is needed to undertake the design of the Sandridge Road Sewer reconstruction and associated modifications to combined sewer overflow regulators.

## COMPLIANCE WITH REGIONAL OFFICIAL PLAN

This study is consistent with the objectives of the Regional Official Plan in that it will implement specific requirements identified in the Region's Wastewater Master Plan, and will provide information that will allow the Region to minimize future capital, operation and maintenance costs.

## FINANCIAL STATEMENT

	\$
Approved Budget to Date	2,363,000
Total Paid and Committed	<u>(1,601,501)</u>
Balance Available	761,499
THIS REQUEST	<u>(78,000)</u>
Balance Remaining	<u>683,499</u>

Funds have been provided in the 1999 Capital Budget, Account No. 932-43413-3603, Flow Monitoring Program, encumbrance no. CA9637. This amount includes contingencies and G.S.T.

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

CR/

FINANCE DEPARTMENT COMMENT

Funds are available as indicated.

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