REGION OF OTTAWA-CARLETON REPORT
RÉGION D'OTTAWA-CARLETON RAPPORT

Our File/N/Réf. 42-00-0062
Your File/V/Réf.

DATE 26 April 2000

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

FROM/EXP. Planning and Development Approvals Commissioner

SUBJECT/OBJET **KANATA NORTH ENVIRONMENTAL/STORMWATER MANAGEMENT PLAN**
CONSULTANT APPOINTMENT

DEPARTMENTAL RECOMMENDATION

That the Corporate Services and Economic Development Committee and Council approve the appointment of CH2M Gore & Storrie Limited to undertake the preparation of the Kanata North Environmental/Stormwater Management Plan at a cost not to exceed $163,133 (including contingency and GST).

BACKGROUND

At its meeting of 12 April 2000, Regional Council endorsed the Shirley's Brook/Watts Creek Subwatershed Study as the technical document to guide environmental planning and management decisions within the subwatershed area. The study recommends an integrated land/water management approach designed to protect and enhance the subwatershed's natural features and ecological functions; restore those features/function that have been degraded; and, guide future development in a manner that will ensure the long-term health of the environment. Due to the size of the subwatershed area, the study's development guidelines tended to be general in nature. It was recognized that additional detailed work would be required at a subcatchment or tributary level in order to facilitate the preparation of Stormwater Site Management Plans (SSMPs) for specific subdivision applications. This more detailed work would be captured in an Environmental/ Stormwater Management Plan (EMP) which is similar in scale to the former Master Drainage Plans. The EMP provides the specific environmental and stormwater management requirements for large development areas in accordance with the recommendations of the Subwatershed Plan. Detailed SSMPs are then prepared for individual subdivisions executing the recommendations of the Environmental/Stormwater Management Plan. The preparation of the SSMPs will be more streamlined as the approval requirements are clearly defined up-front.

At the same meeting of Council, Regional Official Plan Amendment 8 was approved to allow urban development to proceed within the Kanata North Expansion Area in accordance with the provisions and policies of the Regional Development Strategy. This development area falls within the Shirley's Brook subwatershed (please see Figure). As such, a new policy to be included in Section 3.6, Policies of General Urban Areas, of the Official Plan, was also approved which stipulates the requirement for an EMP prior to development proceeding. Specifically, the policy states:

"That prior to the registration of any subdivision, a comprehensive Environmental/Stormwater Management Plan shall be prepared to implement the recommendations of the Shirley's Brook/Watts Creek Subwatershed Plan, addressing such matters as:

- *natural environmental constraints;*
- *flooding/ natural hazard constraints;*
- *erosion and drainage issues;*
- *restoration and remediation measures;*
- *meander belt widths/ morphology; and,*
- *urban stormwater management requirements.*

Within the Shirley's Brook subwatershed area, there is a tremendous amount of development pressure and growth within the urban areas of the South March Community and the Kanata North Business Area (please refer to Figure). As there is no overall stormwater management strategy for future development, the EMP will also examine opportunities to address stormwater in these development areas. The stormwater management strategy for Kanata North will include the identification of the type, location, and functional design of centralized stormwater management facilities as well as cost estimates and operation and maintenance requirements. The primary objective of the integrated Environmental/Stormwater Management Plan will be to ensure that the desirable hydrologic characteristics of the subwatershed are maintained and the optimum ecological resources are protected in conformity with the overall intent of the subwatershed study.

DISCUSSION

With the assistance of Supply Management Division, a Request for Qualifications (RFQ) was posted on the open internet-based MERX bid distribution system on 19 January 2000. A total of thirteen (13) submissions were received by the closing date of 9 February 2000. The qualification submissions were reviewed and evaluated by a Selection Committee comprised of Regional staff from the Policy and Infrastructure Planning Division, Supply Management Branch, and Engineering Services as well as representatives from the City of Kanata and the Mississippi Valley Conservation Authority. The Selection Committee evaluated each submission according to a ranking system outlined in the RFQ which assessed each firm's relevant experience and qualifications in the following areas:

- water resources engineering;
- functional design of stormwater management systems;
- natural environment and stream morphology assessment;
- subwatershed and environmental management plans; and,
- environmental assessment.

The evaluation of the submissions resulted in three consultant teams being short listed for the Request for Proposal stage of work: CH2M Gore & Storrie; Robinson Consultants; and, Totten Sims Hubicki.

An invitation for proposals was sent to the three short-listed consultants on 20 March 2000. All three firms submitted detailed proposals by the closing date of 7 April 2000. The Selection Committee evaluated the three proposals according to the ranking system outlined in the Request for Proposal document for the following criteria:

1) Resources and Experience of Firm;
2) Experience, Qualifications, and Availability of Team members;
3) Understanding of Objectives;
4) Quality of Approach and Methodology;
5) Schedule, Proposed Work Plan and Level of Effort; and,
6) Financial Proposal.

CH2M Gore & Storrie Limited was deemed to be the most appropriate candidate to undertake the study as they received the highest overall ranking while providing the lowest cost.

The work program includes the following elements:

- Review Existing Background Information
- Define Existing Environmental Conditions and Establish Constraint/Opportunity Mapping
- Establish Preferred Environmental and Stormwater Management Strategy
- Prepare Environmental/Stormwater Management Plan
- Environmental Assessment and Approval
- Public Consultation

The length of the assignment is approximately 12 months. Therefore, it will extend beyond 31 December 2000.

The Department recommends the award of the contract to CH2M Gore & Storrie Limited with a contract provision of $138,601, plus a $13,860 contingency and G.S.T. of $10,672, for a total of $163,133.

CONSULTATION

Public consultation will be a major component of the study. The Kanata North Environmental/Stormwater Management Study will follow the Municipal Engineers Association Class Environmental Assessment Process for Water and Wastewater Projects. As such, the public consultation requirements for this process will be incorporated into the public consultation program. A Steering Committee will be established with members from the selection committee as well as representatives from the development community. The Steering Committee will meet regularly to ensure ample opportunity is provided for input and guidance early in the decision making process. Public open houses with stakeholders (e.g. community associations, residents, and land owners) will complement the efforts of the Steering Committee. Interested public in the study area have been identified through both the Shirley's Brook/Watts Creek Subwatershed study and the Kanata North Urban Expansion Area Concept Plan study.

COMPATIBILITY WITH THE REGIONAL OFFICIAL PLAN

Environmental/Stormwater Management Plans fall under the watershed planning framework. Therefore, the preparation of this plan supports Section 5.3, Watershed Strategies, of the Regional Official Plan. It is one of the first recommendations of the subwatershed study to be implemented in co-operation with the municipality and the conservation authority. The preparation of the Environmental/Stormwater Management Plan (EMP) will allow for the preparation of individual Stormwater Site Management Plans (as directed under policy 5.3.3) that will detailed how the recommendations of the approved EMP will be implemented for a specific development. The EMP will ensure appropriate execution of several policies of the Official Plan providing for environmentally sensitive planned development. In addition, the preparation and implementation of the Environmental/Stormwater Management Plan for Kanata North will help achieve the following goals of the Regional Official Plan:

Goal 7 - support a high quality of public open space and natural environment to bolster economic, cultural and political activities.

Goal 8 - preserve the integrity of natural systems by directing land use and development in a way that maintains ecosystem functions over time.

Goal 12 - protect people from natural and human-made hazards.

EXPENDITURE JUSTIFICATION

The Council approved Shirley's Brook/Watts Creek Subwatershed Study and Regional Official Plan Amendment 8 require that an Environmental/Stormwater Management Plan (EMP) be undertaken prior

to future development proceeding. The EMP is an accompaniment to the subwatershed study which will allow for the completion of the subwatershed plan requirements specified under Policy 5.3.2.4 of the Official Plan. In addition, an environmental assessment as directed by the provincial *Environmental Assessment Act* must be undertaken as the study will be identifying stormwater management capital projects for the study area.

FINANCIAL STATEMENT AND APPROVAL

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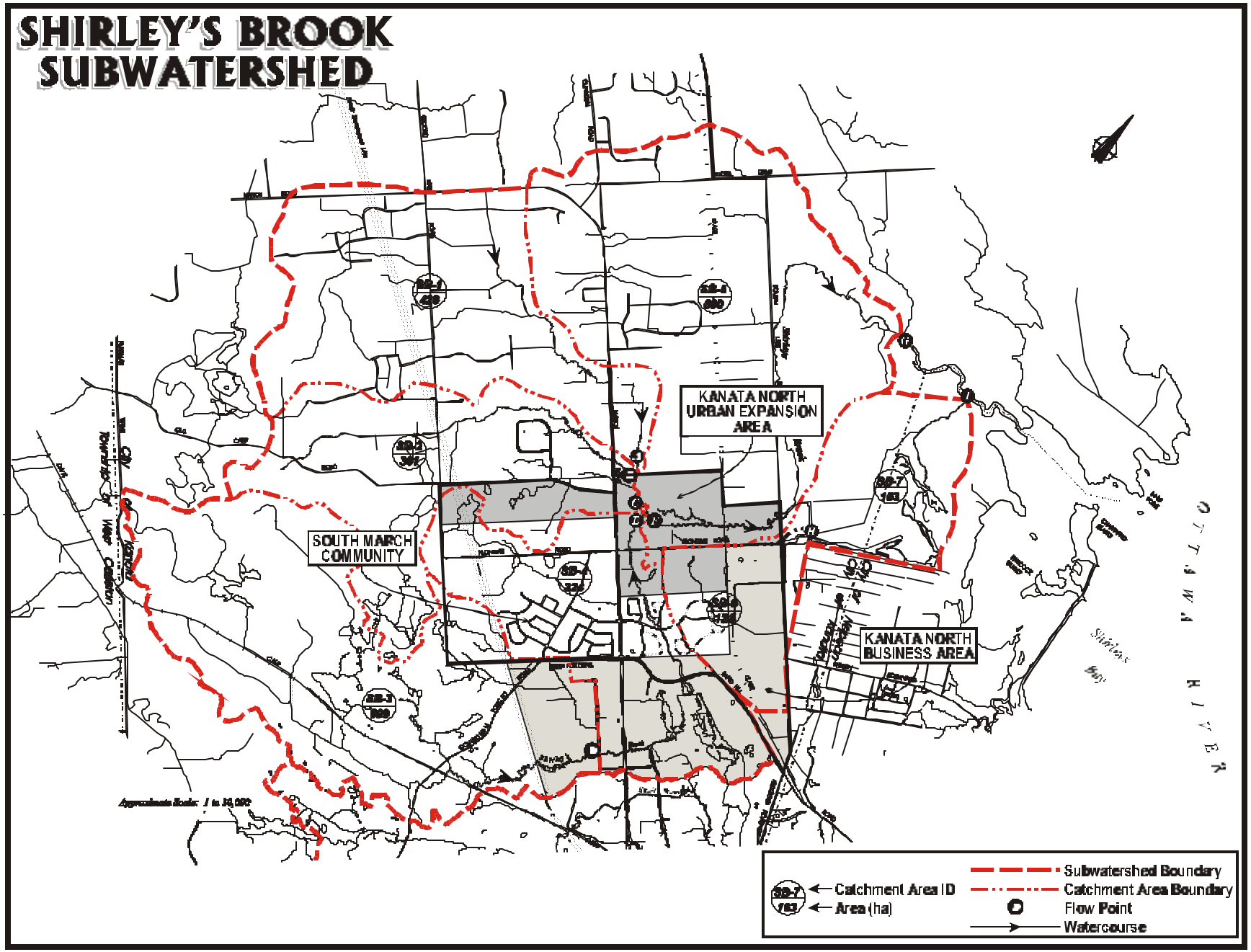
Approved Budget to date	800,000
Total Paid and Committed	(14,422)
Balance Available	785,578
THIS REQUEST	(163,133)
Balance Remaining	622,445

Funds are available in the 2000 Capital Budget, Account No. 900212, Subwatershed Studies.

Approved by
Nick Tunnacliffe, MCIP, RPP

SM/


SHIRLEY'S BROOK
SUBWATERSHED
KANATA NORTH
URBAN EXPANSION
AREA
SOUTH MARCH
COMMUNITY
KANATA NORTH
BUSINESS AREA
Catchment Area ID
Area (ha)
Subwatershed Boundary
Catchment Area Boundary
Flow Point
Watercourse