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**REPORT TO LYALL HARBOUR/BOOT COVE WATER LOCAL SERVICE COMMITTEE
MEETING OF TUESDAY 01 SEPTEMBER 2009**

**SUBJECT CONSULTING SERVICES FOR LYALL HARBOUR/BOOT COVE WATER UTILITY
SYSTEM UPGRADE, SATURNA ISLAND**

PURPOSE

To seek the approval of the Lyall Harbour/Boot Cove Water Local Service Committee (LHBC) for award of a contract for the provision of design, tendering and construction and project management of services relating to the upgrade of water treatment to the Lyall Harbour/Boot Cove water utility on Saturna Island.

BACKGROUND

The Lyall Harbour/Boot Cove water utility obtains its water from Money Lake, a shallow surface water lake on Saturna Island. Water quality for the lake has seasonal variations, due in part to lake level, temperature and algal concentrations. The existing treatment system provides chlorination and rapid filtration of the source water prior to rechlorination and distribution to the consumer. A major water treatment upgrade is required in order to meet new, more stringent treatment requirements of the Vancouver Island Health Authority (VIHA).

The modification to the treatment process introduces Dissolved Air Flotation (DAF) with filtration and ultraviolet (UV) disinfection to improve particulate removal and meet the turbidity criteria as well as all other existing treatment parameters to ensure that water quality of the treated water meets or exceeds all Canadian Drinking Water Quality Guidelines and is in compliance with VIHA requirements. The DAF/UV treatment process has been recommended by Earth Tech Engineering Consultants for use on the typical Gulf Island surface water source, which is a shallow lake with seasonal algal blooms. This treatment process has been installed for similar sources on Salt Spring Island for the Beddis, Fulford and Highland/Fernwood water systems.

The upgrade project also includes balancing reservoir storage to ensure that instantaneous demand can be met from reservoir storage which has been treated and is of the desired water quality. The existing system does not include balancing storage downstream of the treatment plant. As a result, the treatment process must meet instantaneous peak demands in the distribution system, resulting in unstable flows.

The Lyall Harbour/Boot Cove water utility received a two-thirds federal/provincial infrastructure grant for the project, which is estimated at a total cost of \$1,279,200. Through a petition, the community has agreed to borrow its share of \$430,000 through the Municipal Finance Authority. Three qualified consulting firms were invited to submit proposals to provide engineering services for the design, procurement, supply and installation of a DAF/UV process as well as balancing reservoir storage for the Lyall Harbour/Boot Cove water utility.

Three submissions were received for these works (including 5% GST) as follows:

Genivar	\$81,585
Stantec Consulting Ltd.	\$104,823
Kerr Wood Leidal Associates Ltd.	\$214,003

The Capital Regional District (CRD) has worked on capital projects with all three consultants. The consultants were advised that cost was a major component in the choice of consultant for these works, but not the sole basis for acceptance. Understanding of the scope, ability to work to a schedule and budget were also high priorities. Genivar has worked on very similar projects with the CRD for the Beddis, Fulford and Highland/Fernwood water treatment plant upgrades. The work of the consultant has been at a level acceptable to the CRD. The Genivar price reflects their previous experience gained on very similar projects.

ALTERNATIVES

1. That the Lyll Harbour/Boot Cove Water Local Service Committee recommend to the General Manager of Environmental Services that Contract 09-1644 *Provision of Consulting Services for the Lyll Harbour/Boot Cove Water Utility System Upgrade* be awarded to Genivar, in the amount of \$81,585, including GST; and that funding be provided from the capital project budget.
2. That the Lyll Harbour/Boot Cove Water Local Service Committee receive this report for information.

FINANCIAL IMPLICATIONS

The proposal submitted by Genivar is consistent with the project budget. The award of the contract to Genivar in the amount of \$81,585 is within the allowance for engineering services within the \$1,279,200 overall project budget for these works.

SUMMARY

Engineering design and project management services are required for the water treatment plant upgrades associated with the Lyll Harbour/Boot Cove water utility. The \$1,279,200 project received a two-thirds provincial/federal infrastructure grant for the works. The grant requires the CRD retain consultants for the design/project management component of the project. The submission of Genivar in the amount of \$81,585 to provide these works resulted from a call for credentials and subsequent request for proposals from consultants in accordance with CRD procurement policy. The fee estimate of \$81,585, including GST, submitted by Genivar is in compliance with the project budget for these works.

RECOMMENDATION

That the Lyll Harbour/Boot Cove Water Local Service Committee recommend to the General Manager of Environmental Services that Contract 09-1644 *Provision of Consulting Services for the Lyll Harbour/Boot Cove Water Utility System Upgrade* be awarded to Genivar, in the amount of \$81,585, including GST; and that funding be provided from the capital project budget.



Colwyn Sunderland, ASCT
Local Services Engineering Coordinator

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