

CITY COUNCIL AGENDA ITEM
CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Authorize the City Manager to sign a contract change order to remove an additional 1,200 cubic yards of sediment as part of the Hidden Lake Sediment Removal Project
DEPARTMENT:	Public Works – Surface Water and Environmental Services Division
PRESENTED BY:	Mark J. Relph, Public Works Director Jesús Sanchez, Operations Manager

PROBLEM/ISSUE STATEMENT:

In response to the December 2007 storm, the City applied for a Federal Emergency Management Agency (FEMA) grant for funding to remove storm-related sediment from Hidden Lake. The original survey conducted on January 25, 2008 estimated a total of 2,700 cubic yards of sediment had built-up during the storm and needed to be removed. A contract with RJ Lampers Construction, Co. in the amount of \$130,892.65 was executed on August 13, 2008. The FEMA grant funded 75% of the sediment removal project and the City contributed 25% from funds dedicated as part of its bi-annual sediment removal maintenance operations at Hidden Lake.

From the original January 2008 survey to the beginning of sediment removal on August 18, 2008 materials have built up in Hidden Lake due to up-stream sediments that have continued to flush during the wet winter and spring seasons. This additional sediment includes slope failures and large sediment deposits within the high water mark resulting from the December 3, 2007 storm.

As the elevation of sediments has dropped within Hidden Lake during the removal project, materials which had previously been held in the creek channel immediately upstream have now shifted down into Hidden Lake. In order to return the lake to its designed parameters to hold sediment, flood water, and as a habitat protection area, an additional 1,200 cubic yards of material must be removed from Hidden Lake.

The City's current project timeline is tied to the Hydraulic Project Approval (HPA) Ecology Permit, which only allows for construction work to be performed during the "Fish Window", which closes September 15, 2008. All work in Hidden Lake must be completed by this date. The proposed change order (not to exceed \$50,000.00) will exceed the \$200,000.00 authorization limit by the City Manager for Public Works projects and thus would require City Council authorization to approve completion of this project.

FINANCIAL IMPACT:

The original contract award of \$130,892.65 was funded by a FEMA grant of \$98,169.49 and \$32,723.16 in the Surface Water Management program. Due to the continued accumulation of sediment, the City Manager approved Change Order #1 totaling \$49,704 using savings from the Surface Water Roads program. This requested Change Order # 2 totaling \$50,000 will be funded by savings from two capital projects. Identified savings of \$30,000 in the Boeing Creek Stormwater project and \$20,000 in the Pan Terra Pond and Pump project will be used to fund Change Order # 2.

No budget amendment is required since all funding sources for this contract are within the Surface Water Management Fund.

RECOMMENDATION

Staff recommends that Council authorize the City Manager to sign a contract change order with RJ Lampers Construction, Co. to remove an additional 1,200 cubic yards of sediment as part of the Hidden Lake Sediment Removal Project in an amount not to exceed \$50,000.00.

Approved By: City Manager  City Attorney ____

BACKGROUND

Hidden Lake is a man-made flood and sediment control facility as well as a habitat improvement project along Boeing Creek. Its purpose is to help prevent flooding in the downstream reaches of Boeing Creek and helps trap sediment in the forebay (the upstream end of the lake) that could be harmful to aquatic life downstream.

On a regular basis, the City has removed sediment from the Hidden Lake forebay. The last removal was during the summer of 2006. Below is a record of the removals conducted by the City of Shoreline (previous removals were done by King County prior to Shoreline's incorporation in 1995):

Calendar Year	Cubic Yards of sediment removed
1999	372
2002	726
2004	264
2005	500
2006	500
2008* (estimated with)	5,100
TOTAL	7,462

** Estimate. Also includes amount for proposed additional sediment removal from December 3rd Storm event.*

The average volume of sediment removed from the forebay during the 7-year period of August 1999 to August 2006 is approximately 337 cubic yards per year (2,362 divided by 7). Following this trend, we would “**normally**” remove approximately 674 cubic yards from the forebay in 2008 (2 years [2007, 2008] x 337 cubic yards per year).

ALTERNATIVES ANALYSIS

If this project is not completed then Hidden Lake will not work to hold sediment and function as a habitat protection area as it was designed to do, and this extra 1,200 cubic yards of material will likely impact drainage flow during the 2008-2009 winter storm season.

RECOMMENDATION

Staff recommends that Council authorize the City Manager to sign a contract change order with RJ Lampers Construction, Co. to remove an additional 1,200 cubic yards of sediment as part of the Hidden Lake Sediment Removal Project in an amount not to exceed \$50,000.00.