



KENAI PENINSULA BOROUGH

River Center Department

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MEMORANDUM

DAVID R. CAREY
BOROUGH MAYOR

TO: Gary Knopp, Assembly President
Members, Kenai Peninsula Borough Assembly

THRU: David R. Carey, Borough Mayor *DR Carey by Shilley*
Craig Chapman, Finance Director *C Chapman*
Brenda Ahlberg, Community and Fiscal Project Manager *B Ahlberg*

FROM: John Mohorcich, River Center Director *JM*

DATE: September 8, 2011

SUBJECT: Ordinance 2011-19- 22, accepting and appropriating \$99,272 from the U.S. Department of Interior for Stream Channel and Elevation Modeling, a project under the Coastal Impact Assistance Program

The Kenai Peninsula Borough Assembly, by resolution 2009-018, approved 19 projects for funding through the federal Coastal Impact Assistance Program (CIAP). The Stream Channel and Elevation Modeling project in the Seward-Bear Creek Flood Service Area was among those projects approved by the Kenai Peninsula Borough Assembly and forwarded to the State of Alaska for inclusion in the Alaska CIAP Plan. On April 23, 2010, the Department of Interior, Minerals Management Service, henceforth known as the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE), approved the Alaska Coastal Impact Assistance Program (CIAP) Plan. Among the projects approved by BOEMRE and awarded to the Kenai Peninsula Borough is the Stream Channel and Elevation Modeling in the Seward-Bear Creek Flood Service Area (SBCFSA).

This ordinance will authorize reimbursable funding for the project. This project will provide the tools with which to develop and maintain topographic data and develop modeling of stream channel migration zones, flood prone infrastructure, natural features and base flood elevations within the riparian areas of the SBCFSA. More specifically, this project will enable the borough to communicate risk and landscape evolution (geomorphology) beyond a simple one dimensional flood model used by FEMA's National Flood Insurance Program. To accomplish this, channel migration zones within the SBCFSA will be identified. Flood prone infrastructure will be documented and bed load transport will be quantified, in recorded elevation profiles and relative to flood flow. Using the high resolution topographic data obtained in this project, various stages of flood flow and sediment load will be incorporated into the high resolution topographic datasets and illustrate channel depth and flood changes over time for decision makers, natural resource managers, and the general public.

A significant habitat protection and enhancement feature of this project could cooperatively occur between the borough and the Alaska Department of Fish and Game, Habitat Division. The borough and ADF&G will be able to track fish sampling locations relative to streambed conditions. This is an important connection to make for locations within the service area given the ever-changing, glacially fed, alluvial streams that predominate in the area and the importance of habitat maintenance to preserve significant runs of salmon.

The performance period of this grant ends October 31, 2013. The borough floodplain administrator, Dan Bevington, is the assigned project manager responsible for the administration of CIAP Funds.

Attachment: award notification

FINANCE DEPARTMENT	
Acct #	FUNDS VERIFIED
Acct. No.	<u>271.21135.11184.49999</u>
Amount	<u>N/A</u>
By:	<u>CRW</u> Date: <u>9/8/11</u>