



Kenai Peninsula Borough

Year 2022 State Capital Improvement Projects

CAPITAL PROJECT: Kwechak Creek Flood Mitigation

Funding Recipient: Kenai Peninsula Borough

Project Name: Seward Flood Service Area – Bruno Rd Armoring & Drainage Improvements

Detailed Project Description and Justification:

The Kenai Peninsula Borough is seeking \$1,800,000 to complete armoring along 1,000 feet of embankment of Kwechak Creek, adjacent to Bruno Road and drainage improvements in the Questawoods neighborhood located in Seward.

Background

The Kenai Peninsula Borough Seward-Bear Creek Flood Service Area provides planning, protection and mitigation of flooding, sedimentation and erosion hazards in the community of Seward, Bear Creek and Lowell Point. The Service area prioritizes its mitigation projects through the use of an identified mitigation needs list. The list is evaluated annually by the Flood Service Area Board and a recommendation for yearly priority projects is sent to the Borough administration for inclusion in the annual budget at the wishes of the assembly.

Justification

As glaciers retreat in the high reaches of the Kwechak Creek watershed, rain events cause erosion and landslides, transporting massive amounts of sedimentation throughout the active stream corridor. A series of armored banks and gravel embankments channelize flows through neighborhoods and bridge crossings. The Kenai Peninsula Borough Flood Service Area maintains 2,600-foot-long gravel embankments in the Questawoods neighborhood, with assessed values of over \$31 million, to channelize Kwechak Creek flows. Recent storm events have caused flood waters to rapidly erode existing gravel berms, undermining the adjacent road, and causing damages to infrastructure and private properties and closure of Bruno Road, the only egress for the neighborhood. Though maintenance operations are completed annually, emergency response activities have been necessary five times in the last five years to reduce the impacts of flooding in the neighborhood.

The total cost for this project is estimated at \$1,800,000.

Methodology

Should funding be made available the Kenai Peninsula Borough would immediately solicit for the design and engineering of approximately 1,000 liner feet of armored embankment, along 1,000 feet of paved Bruno Road that includes excavation, drainage ditching and culvert improvements throughout the neighborhood. The drainage and road improvements will be designed to compliment and maximize the ongoing mitigation efforts conducted by the Seward-Bear Creek flood service area on a regular basis, while maximizing the useful life of both the constructed revetment and the surrounding infrastructure.

Funding Requested:	\$	1,800,000.00	Election District:	Senate:
Total Project Cost:	\$	1,800,000.00		House:
Local Match (if any):	\$			

CONTACT INFORMATION

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Funding Plan:

Total Project Cost:	\$ 1,800,000	This should be the most accurate estimate of how much this project will cost.
Funding Secured:	\$	How much of the project costs are in hand, secured, guaranteed, appropriated, etc. You may include in-kind contributions and volunteer labor. Do not include hypothetical funds.
Funding Requested:	\$ 1,800,000	How much is being requested from this year's capital budget.
Pending Requests	\$	Amount requested from other sources not yet received.
Project Deficit:	\$	Additional funding needed to complete the project.

Please list Secured Funding Sources and Amounts:

N/A

If this project is funded this year, will you be requesting state funding again?

Yes: No:

Please describe the project time-line and when the expenditures will occur:

Has this project gone through a public review process at the local level?

Yes: No:

Is it a community or service area priority demonstrated by resolution or other official action?

Yes: No:

If a community or service area meeting was conducted, how was it advertised? When and where was it held? Who attended?

Who will own the project or facility? Kenai Peninsula Borough

Entity responsible for providing ongoing operation and maintenance of this project? Central Emergency Services

How will operations and maintenance be funded after the project is complete? Central Emergency Services, Operating Budget, Kenai Peninsula Borough

Please select a project type (chosed only one):

- Planning and Research
- Maintenance and Repairs
- Remodel, Reconstruction and Upgrades
- New Construction and Land Acquisition
- Equipment and Materials
- Information System and Technology
- Other: