



Kenai Peninsula Borough

Year 2022 State Capital Improvement Projects

CAPITAL PROJECT: Japanese Creek Flood Mitigation

Funding Recipient: Kenai Peninsula Borough

Project Name: Seward Flood Service Area – Japanese Creek Drainage Improvements

Detailed Project Description and Justification:

The Kenai Peninsula Borough is seeking \$1,680,000 to complete drainage improvements in the Japanese Creek floodplain 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. Long term mitigation of flooding in the Japanese Creek watershed has been the top priority of the Flood Service Area since 2018.

Justification

As glaciers retreat in the high reaches of the Japanese Creek watershed, rain events cause erosion and landslides, transporting massive amounts of sedimentation into the lower reaches of the alluvial fan. Deposition of sediments have filled the active corridor, causing flood waters to divert to new areas, including the northern neighborhoods of Seward. Recent events have caused flood waters to overtop the existing levee at Japanese, causing damages and closure of Dieckgraeff Road. Dieckgraeff Road provides access to the Kenai Peninsula Borough Solid Waste Transfer Facility and inert waste landfill, this facility serves the solid waste disposal needs of the entire Seward area. In addition to the solid waste facility, Dieckgraeff road also provides the only access to the Borough owned Rock Quarry, a critical resource in times of flood emergencies.

In 2020, the Kenai Peninsula Borough Flood Service Area, Solid Waste Department and the City of Seward partnered with the U.S. Army Corps of Engineers (USACE) to compete a feasibility study of the Japanese Creek floodplain. The USACE provided recommendations and cost estimates of alternatives to reduce the risk of flooding, erosion and sedimentation. The design and engineering of the preferred alternatives are anticipated to be completed in 2022 with local sponsor funds. The total estimated cost for construction of alternatives, including Dieckgraeff Road modifications, construction of a debris basin, and installation of an early warning system is estimated at \$1,680,000.00.

Methodology

Should funding be made available the Kenai Peninsula Borough would immediately issue an invitation to bid on the construction of the flood risk reduction alternatives. The drainage and road improvements will be designed to have an estimated 50-year useful life.

Funding Requested:	\$	1,680,000.00	Election District:	Senate:
Total Project Cost:	\$	2,177,000.00		House:
Local Match (if any):	\$	497,000.00		

CONTACT INFORMATION

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Funding Plan:

Total Project Cost:	\$ 2,177,000	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:	\$ 1,680,000	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?

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

Yes: No:
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 (chose 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: