

CLERK'S OFFICE

APPROVED

Date: 2-1-05

IMMEDIATE RECONSIDERATION ANCHORAGE, ALASKA  
FAILED 2-1-05 NO. AR 2005-12

Submitted by: Chair of the Assembly  
at the Request of the Mayor  
Prepared by: Project Management & Engineering  
Department  
For Reading: January 25, 2005

A RESOLUTION OF THE MUNICIPALITY OF ANCHORAGE ACCEPTING AND APPROPRIATING FOUR HUNDRED ELEVEN THOUSAND SIX HUNDRED DOLLARS (\$411,600) AS A GRANT FROM THE ALASKA DEPARTMENT OF MILITARY AND VETERANS AFFAIRS, DIVISION OF HOMELAND SECURITY AND EMERGENCY MANAGEMENT, TO THE MISCELLANEOUS CAPITAL PASS-THRU FUND (409), FOR THE LOWER FIRE LAKE DAM REHABILITATION PROJECT.

WHEREAS, Lower Fire Lake dam is failing and urgently requires rehabilitation; and

WHEREAS, partial funding for the rehabilitation has been received through previous State of Alaska grants; and

WHEREAS, the State of Alaska Department of Military and Veterans Affairs, Division of Homeland Security and Emergency Management (DHS&EM), has received hazard mitigation grant funds from the Federal Emergency Management Agency (FEMA) for the Lower Fire Lake Dam Rehabilitation Project; and


WHEREAS, the Municipality of Anchorage has received a grant in the amount of \$411,600 from the DHS&EM, which includes FEMA hazard mitigation grant funds, to rehabilitate Lower Fire Lake dam; now therefore,

THE ANCHORAGE ASSEMBLY RESOLVES:

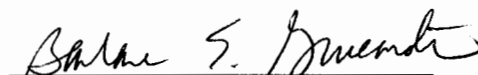
Section 1. That a sum of Four Hundred Eleven Thousand Six Hundred Dollars (\$411,600) in DHS&EM grant monies be appropriated for construction activities related to the rehabilitation of Lower Fire Lake Dam.

Section 2. That this resolution shall take effect immediately upon passage and approval by the Anchorage Municipal Assembly.

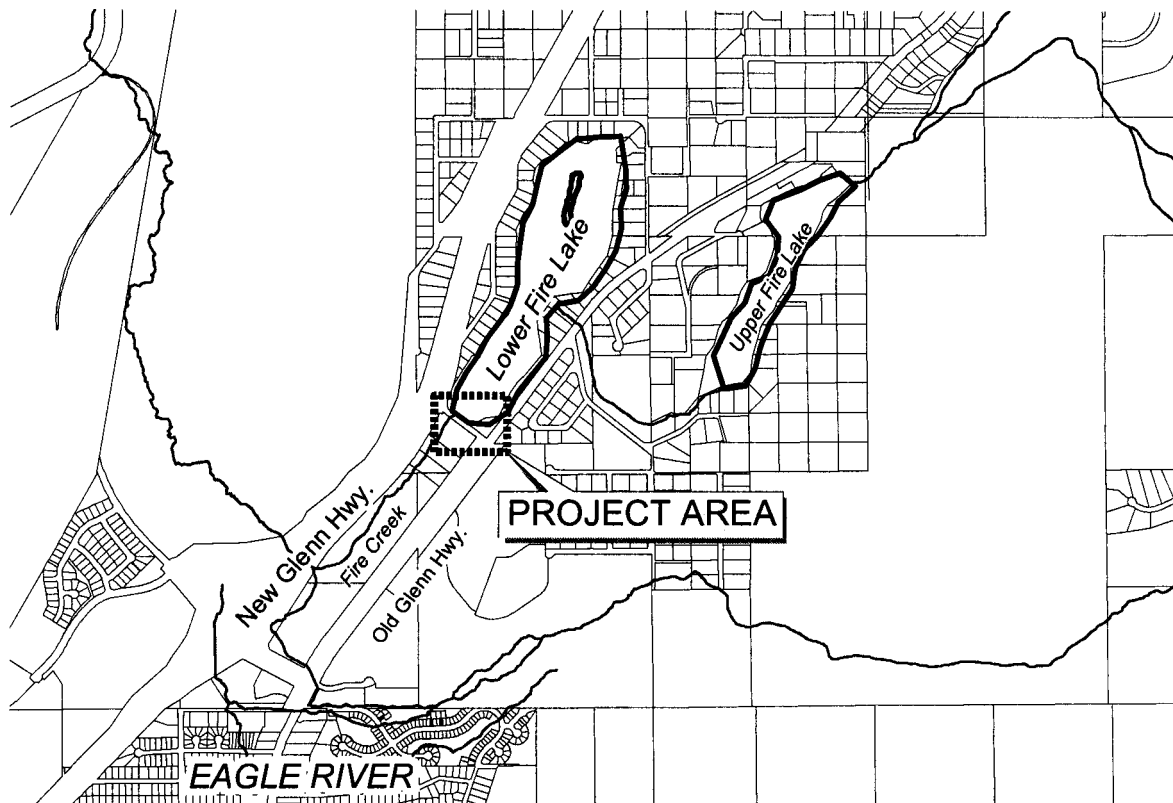
PASSED AND APPROVED by the Anchorage Municipal Assembly this 1<sup>st</sup> day of February, 2005.

  
Chair

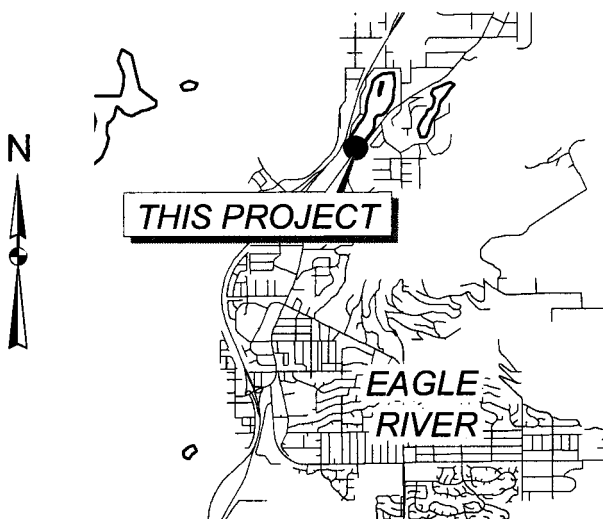
ATTEST:

  
Municipal Clerk

Department of Appropriation:  
Project Management & Engineering Department \$411,600



# PROJECT MAP



## Lower Fire Lake Dam Rehabilitation Project

ANCHORAGE, ALASKA

Project Management and Engineering Department  
Municipality of Anchorage  
The Boutet Company, SC, 12/22/2004  
99-31



**MUNICIPALITY OF ANCHORAGE  
ASSEMBLY MEMORANDUM**

**No. AM 44-2005**

**Meeting Date: January 25, 2005**

**FROM:** Mayor

**SUBJECT:** Resolution to Accept and Appropriate Alaska Department of Military and Veterans Affairs, Division of Homeland Security and Emergency Management Grant Funds for Lower Fire Lake Dam Rehabilitation, Project No. 99-31(\$411,600)

The Alaska Department of Military and Veterans Affairs, Division of Homeland Security and Emergency Management (DHS&EM), has granted the Municipality \$411,600 for the rehabilitation of Lower Fire Lake dam. Accelerated deterioration of the dam embankment and spillway has created an urgent need to complete the improvements.

The existing dam was built as a culvert road crossing and fish ladder by the Alaska Department of Fish and Game in 1962 (see location on attached map). Later, the fish ladder was removed, leaving a concrete headwall on the downstream face, and the structure effectively became a de facto dam. The Municipality of Anchorage accepted ownership of the dam in 1999. Studies performed by the Municipality in 1999 and 2000 confirmed that the dam is both approaching the end of its service life and undersized to accommodate a major rainfall/flood event in the Lower Fire Lake basin. Because of recent development downstream of the dam, the Alaska Department of Natural Resources has elevated the dam to a Class 1 hazard classification, indicating that failure would probably result in loss of life, utilities and/or high-value property.

In the event of a major flood, water would overtop the existing dam, leading to complete erosion failure of the earthen embankment. The resulting surge would wash forest litter to the culvert crossing of the Glenn Highway and block its entrance. Eventually, the storm water would rise until it crossed the highway. This would necessitate closure of the highway and costly repairs before it could be re-opened.

In the near term, there is evidence that leaking subsurface water is slowly eroding the dam embankment. Continued erosion could lead to a failure of the dam described above, but without the storm surge and breach of the Glenn Highway. Also, the concrete headwall that is an integral part of the dam structure is deteriorating and will eventually fail to retain the soil behind it. This failure is expected within the next two to five years.

Resolution Appropriating Hazard Mitigation Grant Funds for the Lower Fire Lake Dam Project  
Page 2 of 2

The new dam will have culverts sized to pass a major flood, and a hardened spillway to protect the dam in case of overtopping. The project would also address environmental permit requirements and construct a new, wider roadway section across the dam.

The project design is approximately 65% complete. The current cost to finish the project is estimated at \$530,000. This DHS&EM grant, which includes Federal Emergency Management Agency hazard mitigation grant funds, together with funds remaining from previous State grants, would fully fund this project. Construction would be planned for 2005. The accounting detail is as follows:

<u>Revenue:</u>	409.7271.9825.M55M01.2005	\$411,600
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<u>Expenditures:</u>	409.7271.3101.M55M01.2005	\$411,600
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THE ADMINISTRATION RECOMMENDS APPROVAL OF THE RESOLUTION APPROPRIATING \$411,600 AS A GRANT FROM THE ALASKA DEPARTMENT OF MILITARY AND VETERANS AFFAIRS, DIVISION OF HOMELAND SECURITY AND EMERGENCY MANAGEMENT TO THE MISCELLANEOUS CAPITAL PASS-THRU FUND (409), FOR THE REHABILITATION OF LOWER FIRE LAKE DAM.

Prepared by: Howard C. Holtan, Director, Project Management & Engineering Department

Fund Certification: Jeffrey E. Sinz, Chief Fiscal Officer

409.7271.9825.M55M01.2005	\$411,600
(2005 State Grant)	

Concur: Denis C. LeBlanc, Municipal Manager

Respectfully submitted: Mark Begich, Mayor

## Content Information

**Content ID : 002529**

**Type:** AR\_FundsApprop - Funds Approp Resolution

## Resolution Appropriating Grant Funds from the AK Dept. of Military

**Title:** and Veterans Affairs for the *Lower Fire Lake Dam Rehab Project*  
(\$411,600)

**Author:** schuringmj

**Initiating Dept: PME**

**Resolution appropriating \$411,600 from AK Dept. of the Military &**

**Description:** Veterans Affairs, Homeland Security & Emergency Management, to the Misc Capital Pass-Thru Fund 409 for the rehab of Lower Fire Lake dam.

**Keywords:** Fire Lake, Military, \$411,600

**Date Prepared:** 1/19/05 9:54 AM

**Assembly Meeting** 1/25/05  
**Date MM/DD/YY:**

Date MM/DD/YY:

Public Hearing 2/1/05

**Date MM/DD/YY:**

## Workflow History

<u>Workflow Name</u>	<u>Action Date</u>	<u>Action</u>	<u>User</u>	<u>Security Group</u>	<u>Content ID</u>
FundsAppropWorkflow	1/19/05 10:00 AM	Checkin	schuringmj	Public	002529
PME_SubWorkflow	1/19/05 10:13 AM	Approve	hansenjw	Public	002529
OMB_SubWorkflow	1/20/05 4:54 PM	Approve	lohrra	Public	002529
Finance_SubWorkflow	1/20/05 6:09 PM	Approve	sinzje	Public	002529
MuniManager_SubWorkflow	1/21/05 10:07 AM	Approve	leblancdc	Public	002529
MuniMgrCoord_SubWorkflow	1/21/05 10:07 AM	Approve	katkusja	Public	002529