



City of Homer

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Port and Harbor

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Memorandum 22-193

TO: Mayor Castner and Homer City Council

THRU: Rob Dumouchel, City Manager

FROM: Bryan Hawkins, Port Director

DATE: November 7, 2022

SUBJECT: Ordinance 22-5 Acceptance of an FY23 Tier II Municipal Harbor Facility Grant from the State of Alaska for Cathodic Protection in Homer Port and Harbor

The hot-dipped galvanized coating that initially protected the piling within Homer Harbor from corrosion has an effective life between 15 and 20 years. Most of the float system piling in Homer Harbor predates the 1999 ownership exchange from the State to the City of Homer. Engineering surveys show that the original protective galvanized coating on the pile has been depleted, indicating that the steel is freely corroding at this point. With over 500 steel pilings in the harbor securing the 161,000 square feet of concrete and wood floats, we can't have them corroding away and losing structural integrity.

Securing zinc anodes to the pile as a sacrificial source of positively charged ions is an effective way to prevent pile corrosion from electrolysis (as the anodes will oxidize preferentially to the steel).

In 2018, we started installing a zinc anode protection system for the harbor designed by R&M Engineering. This work was funded with from the Port and Harbor maintenance budget and Port and Harbor Reserve funds at a cost of approximately \$200,000. About 25% of the load bearing piles within the harbor are now protected against corrosion, which significantly reduces anticipated maintenance and replacement cost.

Protecting the remainder of the harbor pile is a high priority maintenance item for our facility. As such, \$200,000 for Harbor Basin Cathodic Protection was approved in the City's 2022/2023 capital budget to continue the project. To date, \$8,050.90 has been spent on the Cathodic Protection project for engineering and creating the RFP documents.

Staff subsequently applied to the State of Alaska for a FY23 Municipal Harbor Facility Grant to protect the remaining 75% of the harbor pile, received top ranking among Tier II projects, and has been awarded \$366,000 in grant funding. Approving receipt of this grant award and appropriating match funds allows us to proceed with Global Diving and Salvage through a contractual agreement to purchase materials and complete installation this winter.

Recommendation:

Accept and appropriate the FY23 Tier II Alaska Municipal Harbor Grant in the amount of \$366,000 for the purpose of Harbor Basin Cathodic Protection. Amend the FY2023 Capital budget by appropriating \$174,050.90 from the Port and Harbor reserves, which, combined with the \$191,949.10 balance of the existing appropriation, completes the 50% grant match requirement.

**CITY OF HOMER
FINANCIAL SUPPLEMENT**

PROJECT NAME	<u>Municipal Harbor Grant - Cathodic Protection</u>	DATE	<u>11/08/2022</u>
DEPARTMENT	<u>Port and Harbor</u>	SPONSOR	<u>City Manager/Port Director</u>
REQUESTED AMOUNT	<u>\$ 174,051</u>		

DESCRIPTION	<p>Council approved \$200,000 in the City's FY2022-2023 Capital Budget (ORD 21-36 (S-2)(A)) to continue the Harbor Basin Cathodic Protection project.</p> <p>Resolution 21-052 authorized City staff to apply for an FY23 Municipal Harbor Facility Grant from the State of Alaska in support of extending cathodic protection harbor-wide. The State of Alaska awarded the City of Homer an FY23 Tier II Municipal Harbor Facility Grant in the amount of \$366,000.00 for the purpose of completing cathodic protection harbor-wide. The Municipal Harbor Facility Grant program requires a 50% local match.</p> <p>After engineering the next phase of the project, the Harbor Basin Cathodic Protection project budget has a balance of \$191,949.10, which is available to help meet the City of Homer grant match requirement.</p>
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FUNDING SOURCE(S)	OPERATING	GF CARMA	GF FLEET CARMA	PORT RESERVES	WATER CARMA
	0%	0%	0%	100%	0%
	HAWSP	HART-ROADS	HART-TRAILS	PORT FLEET RESERVES	SEWER CARMA
	0%	0%	0%	0%	0%

FUNDING SOURCE 1: Port Reserves	FUNDING SOURCE 2:	FUNDING SOURCE 3:
Current Balance <u>\$ 2,770,343</u>	Current Balance _____	Current Balance _____
Encumbered <u>\$ 619,245</u>	Encumbered _____	Encumbered _____
Requested Amount <u>\$ 174,051</u>	Requested Amount _____	Requested Amount _____
Other Items on Current Agenda <u>\$ 465,163</u>	Other Items on Current Agenda _____	Other Items on Current Agenda _____
Remaining Balance <u>\$ 1,511,884</u>	Remaining Balance _____	Remaining Balance _____
FUNDING SOURCE 4:	FUNDING SOURCE 5:	FUNDING SOURCE 6:
Current Balance _____	Current Balance _____	Current Balance _____
Encumbered _____	Encumbered _____	Encumbered _____
Requested Amount _____	Requested Amount _____	Requested Amount _____
Remaining Balance _____	Remaining Balance _____	Remaining Balance _____

ORDINANCE REFERENCE SHEET
2022 ORDINANCE
ORDINANCE 22-75

An Ordinance of the City Council of Homer, Alaska, Amending the FY23 Capital Budget by Accepting and Appropriating a Matching Grant from the State of Alaska Municipal Harbor Grant Program in the Amount of \$366,000 for the Harbor Basin Cathodic Protection Project and Appropriating an Additional \$174,050.90 from the Port Reserve Fund to fulfill the City's 50% Match Requirement.

Sponsor: City Manager/Port Director

1. City Council Regular Meeting November 14, 2022 Introduction

Memorandum 22-193 from Port Director/Harbormaster as backup