1 2		CITY OF HOMER HOMER, ALASKA		
3			City Manager/	
4			Public Works Director	
5		ORDINANCE 23-57		
6				
7		NCE OF THE CITY COUNCIL OF		
8		THE FY24 CAPITAL BUDGET BY AP		
9		\$35,000 FROM THE WATER CAPIT		
10		NANCE ALLOWANCE (CARMA) FUN		
11		ANE FILTER MODULE FOR THE WA	ATER TREATMENT	
12	PLANT.			
13	WUEDEAS Ordinand	22.22.22(A.2) adopted the EV24/25 (Sanital Dudgat subjek authorizad	
14		ce 23-23(A-3) adopted the FY24/25 (Lapital Budget, which authorized	
15 16	\$80,000 III F124 to procure	one membrane filter train; and		
17	WHEREAS An additi	onal funding of \$35,000 is necessar	ry to complete the EV24 purchase	
18		and financial factors and the cost		
19	arter negotiating teenmeat	and imaneral factors and the cost of	or the consultant support, and	
20	WHEREAS. The City	's water is treated with a sonhi	sticated system of long small-	
21	WHEREAS, The City's water is treated with a sophisticated system of long, small-diameter hollow threads, which, when connected together in a frame, comprise a "membrane			
22	filter", referred to as a "trai		a manne, somprise a membrane	
23				
24	WHEREAS, The Wate	er Treatment Plant (WTP), built in 20	007, has room for five membrane	
25		redicted life span of 10-15 years; a		
26				
27	WHEREAS, The WTP	currently has five filter trains opera	ating that are currently operating	
28	and past their expected use	eful life; and		
29				
30		5 Capital Budget includes \$80,000		
31	filter train, and the intent is	s to budget for the purchase of one	each in FY26, FY27 and FY28.	
32				
33	NOW, THEREFORE,	THE CITY OF HOMER ORDAINS:		
34				
35		omer City Council hereby amend		
36		al \$35,000 to fund the increased p	urchase price of one membrane	
37	filter module for the water	Treatment Plant as follows:		
38 39	Fund	Description	A	
40	<u>Fund</u> 256-0378	<u>Description</u> WTP Membrane Train	<u>Amount</u> \$35,000	
41	230-0316	WIT MEIIDIAITE ITAIII	\$35,000	
42				

45 46	Section 2. The total appropriation is \$115,000 as follows:			
47	<u>Fund</u> <u>Description</u>	Amount		
48	256-0378 WTP Membrane Train - Existing Appropriation	\$80,000		
49	256-0378 WTP Membrane Train – Additional Funding	\$35,000		
50				
51	Section 3. The City Manager is authorized to execute the appropriate documents.			
52	<u>economia.</u> The only manager is additionzed to execute the appropriate documents.			
53	Section 4. This is a budget amendment ordinance, is temporary in nati	ure, and shall		
54	not be codified.			
55				
56	ENACTED BY THE CITY COUNCIL OF HOMER, ALASKA this 27 th day of November, 2023.			
57	CITY OF HOMER			
58				
59	X (not			
60	and the	_		
61	KEN CASTNER, MAYOR			
62				
63	ATTEST:			
64				
	Nelin Jacob			
64 65	MELISSA JACOBSEN, MMC, CITY CLERK			
64 65 66	Nelin Jacob			
64 65 66 67	Nelin Jacob			
64 65 66 67 68	MELISSA JACOBSEN, MMC, CITY CLERK YES: 6 NO: 0			
64 65 66 67 68 69 70 71	MELISSA JACOBSEN, MMC, CITY CLERK YES: 6 NO: 0 ABSTAIN: 0			
64 65 66 67 68 69 70 71	MELISSA JACOBSEN, MMC, CITY CLERK YES: 6 NO: 0			
64 65 66 67 68 69 70 71 72 73	MELISSA JACOBSEN, MMC, CITY CLERK YES: 6 NO: 0 ABSTAIN: 0 ABSENT: 0			
64 65 66 67 68 69 70 71 72 73	MELISSA JACOBSEN, MMC, CITY CLERK YES: 6 NO: 0 ABSTAIN: 0 ABSENT: 0 Introduction: November 13, 2023			
64 65 66 67 68 69 70 71 72 73 74	MELISSA JACOBSEN, MMC, CITY CLERK YES: 6 NO: 0 ABSTAIN: 0 ABSENT: 0 Introduction: November 13, 2023 Public Hearing: November 27, 2023			
64 65 66 67 68 69 70 71 72 73	MELISSA JACOBSEN, MMC, CITY CLERK YES: 6 NO: 0 ABSTAIN: 0 ABSENT: 0 Introduction: November 13, 2023			



Ordinance 23-57, An Ordinance of the City Council of Homer, Alaska Amending the FY24 Capital Budget by Appropriating an Additional \$35,000 from the Water Capital Asset Repair and Maintenance Allowance Fund to Purchase One Membrane Filter Module for the Water Treatment Plant. City Manager/Public Works Director.

Item Type:

Backup Memorandum

Prepared For:

City Council

Date:

October 31, 2023

From:

Janette Keiser, PE, Public Works Director/City Engineer

Through:

Rob Dumouchel, City Manager

Issue: The purpose of this Memorandum is to request an additional appropriation of \$30,061 from the Water CARMA for the purpose of paying increased costs of providing membrane replacement modules for the Water Treatment Plant (WTP).

II. Background:

Homer's drinking water treatment technology involves the use of modules of very small diameter membranes, which are hung on racks, similar to a drying rack of angel hair pasta. Water passes through the membranes, which trap sediment, organics and other particles. The WTP contains space for six of these racks, called "membrane trains" of which five are currently in use. The sixth rack allows Homer to accommodate larger flows as water demand increases over time. The original membrane trains were installed in 2009, with an expected life span of 10-14 years. Thus, we are at the end of their useful life, so we have developed a plan for replacing them over the next few years. The FY24 Capital Budget includes \$80,000 to purchase one membrane train and the FY25 Capital Budget includes \$80,000 to purchase a second membrane train. We now know the cost of the first membrane train, including a modest contingency, is \$95,000. We need an additional appropriation of \$30,061 to cover the extra cost of the first membrane train.

We will be asking for additional appropriations in future years to address future purchases. We are contemplating purchase of five membrane trains in total to replace each of the original membrane trains.

Memorandum City Council October 31, 2023

We are also requesting an additional \$15,061 to cover the costs of the HDR Task Order. We needed help to review the specifications of the membrane trains, as some of the characteristics of the technology has changed in the past 14 years. Plus, we need to ensure brand new membranes won't adversely affect our current flow conditions at the WTP. So, we commissioned HDR, the original WTP designers to help us negotiate design parameters and features for the new membrane trains as well as to negotiate price indices. HDR's Task Order 23-04 for this work was authorized by Resolution 23-006 and cost \$15,061. The work has been done. We now have a final proposal from the manufacturer, Zenon Environmental Corporation (Zenon), for the new membrane trains.

The Zenon's proposal covers membrane replacement over a period of five years, anticipating purchase of one membrane train each year. This locks in the base price for all five membrane trains. Prices will be adjusted for inflation.

The total value for the purchase of five membrane trains is \$463,870. The Annual Payment is \$92,774 for the first year. Payments for subsequent years will be subject to inflationary adjustments, in accordance with the US CPI-U, All Urban Consumers. In addition to the membrane trains themselves, this price includes fiber repair kits and other parts required to connect the new membranes to the existing frameworks. In the event future City Councils do not appropriate funds for future payments, we have the option to terminate the purchase agreement. Once terminated, there is no option to restart the agreement; we will need to start from scratch.

The City's water treatment plant operators have the skills, abilities and tools to install the new membrane trains once we receive them. We may ask HDR to help commission the new membrane trains to ensure smooth transition between old and new flow parameters. We will assess the need, and request funding, for this possibility when we get the first train.

Homer City Code allows exceptions to be made to bidding requirements in the cases where a sole source procurements is justified, HCC 3.16.060(i). A sole source procurement is justified in this case because Zenon (1) provided the original membrane trains and (2) is the only manufacturer of these specialized membranes in the country.

Zenon's cost proposal is deem fair and reasonable, because it is based on the price guarantee formula that was part of the original purchase in 2009, adjusted for inflation, shipping and other incidental costs we've been able to identify and negotiate, such as costs for the repair kits, etc. The membranes themselves are manufactured in Hungary and subject to U.S. Custom duties, which are subject to change. Because of this, we recommend a small contingency be provided to account for small cost adjustments.

Delivery is projected to be 52 weeks after receipt of a purchase order.

We are asking for a total increase in appropriation of \$35,000, which includes \$15,000 for the additional costs for the membrane trains and \$15,061 for the cost of the HDR Task Order and a contingency amout:

•	HDR Task Order	\$	15,061
•	Membrane train	\$	95,000
•	Contingency	\$	4,939
	Total needed	\$:	115,000
•	Currently authorized	\$	80,000
	Additional \$ needed	\$	35,000

III. RECOMMENDATION: That the City Council appropriate an additional \$35,000 from the Water CARMAS fund to pay for the acquisition of membrane filter trains for the Water Treatment Plant, including (a) purchase of one membrane filter train and (b) consultant services related to the transaction.

CITY OF HOMER FINANCIAL SUPPLEMENT

PROJECT NAME	Additional Funding - WTP Membrane Filter	DATE _11/08/2023	
DEPARTMENT	Public Works	SPONSOR PW Director	
REQUESTED AMOUNT	\$ 35,000	5. 555N	
DESCRIPTION	An additional funding of \$35,000 is necessary to complete the FY24 purchase after negotiating technical and financial factors and the cost of the consultant support.		
	The City's water is treated with a sophisticated system of long, sm frame, comprise a "membrane filter", referred to as a "train". The membrane filter trains, which have a predicted life span of 10-15 y currently operating and past their expected useful life.	nall-diameter hollow threads, which, when connected together in a e Water Treatment Plant (WTP), built in 2007, has room for five years. The WTP currently has five filter trains operating that are	
	•		

FUNDING SOURCE(S)	OPERATING	GF CARMA	GF FLEET CARMA	PORT RESERVES	WATER CARMA
	0%	0%	0%	0%	100%
	HAWSP	HART-ROADS	HART-TRAILS	PORT FLEET RESERVES	SEWER CARMA
	0%	0%	0%	0%	0%

FUNDING SOURCE 1: WATER CAR	MA (256-0378)	FUNDING SOURCE 2:	FUNDING SOURCE 3:	
Current Balance \$ 2,119,591		Current Balance	Current Balance	
Encumbered	\$821,770	Encumbered	Encumbered	
Requested Amount \$ 35,000		Requested Amount	Requested Amount	
Other Items on Current Agenda	\$ 0	Other Items on Current Agenda	Other Items on Current Agenda	
Remaining Balance \$1,262,821		Remaining Balance	Remaining Balance	
FUNDING SOURCE 4:		FUNDING SOURCE 5:	FUNDING SOURCE 6:	
Current Balance Encumbered Requested Amount Remaining Balance		Current Balance	Current Balance	
		Encumbered	Encumbered	
		Requested Amount	Requested Amount	
		Remaining Balance	Remaining Balance	