

Kodiak
St. Herman's Harbor

Condition of Improvements

31 December 2022

St. Herman's Harbor

Kodiak, Alaska

(CWIS No. 320418)

Authorization (1) Section 202 of Public Law 99-662 (Senate Doc. 6, 96th Congress, 1st Session) 17 November 1986, and Section 102 of the Water Resource Development Act of 1990 (Public Law 101-640, 101st Congress) 28 November 1990, provide for a breakwater 1900 feet long with an entrance channel 930 feet long and 20 feet deep to serve 45 acres of moorage in St. Herman's Bay. (2) Section 5033 of the Water Resources Development Act of 2007 provided authorization stating, "The Secretary shall carry out, on an emergency basis, the necessary removal of rubble, sediment, and rock impeding the entrance to the St. Herman and St. Paul Harbors, Kodiak, Alaska, at a Federal cost of \$2,000,000."

Table 1

Existing Project	Length ft.	Width ft.	Depth ft.
North Entrance Channel	250	100	-12
Maneuvering Channel	730	60	-12
Main Breakwater	1500		
Stub Breakwater	430		
North Breakwater	100		

Project Usage Kodiak, the third largest commercial fishing port in the United States, is a world leader in king crab production and ranks among the top four national ports in halibut production. Saint Herman's holds about 900 vessels in the summer and 650 over the winter. Kodiak is also an important cargo port and transshipment center. This port is the only large, full-service harbor of refuge between Cook Inlet and the Shumagin Islands.

Progress of Work

1991	A General Design Memorandum and plans & specifications are being developed for construction of new breakwaters and a second entrance channel at St. Herman's Bay, Near Island.
1995	Two new breakwaters are under construction between Near Island and Gull Island to protect the extensive float system at St. Herman's Bay.

Progress of Work

1997	Construction is completed on the (3) new rubble-mound breakwaters protecting St. Herman's Bay, and the north entrance and maneuvering channels are dredged.
2002	Multi-beam survey techniques are used to check the three entrances to St. Herman's Harbor, the condition of Near Is. Channel, and the entrance to the small boat basin in Saint Paul's Harbor
2006	Project condition surveys and aerial photography are done for Near Is. Channel and Saint Herman's Harbor.
2009	A tidal datum update and project condition survey are conducted in June for Near Is. Channel, St. Herman's Harbor, and St. Paul Harbor. The project limits for Near Is. Channel are adjusted to align with the wharves and other structures.
2010	Sediment characterization and contract plans and specifications began in support of dredging rocks and sediment from the St. Paul and St Herman's harbors. USACE Comprehensive Evaluation of Project Datums Compliance report completed and recorded in December.
2012	A maintenance dredging contract was awarded to Western Marine Construction to mechanically remove rock in the entrance channels of St. Herman's and St. Paul Harbors.
2013	Maintenance dredging removed 10,265 cubic yards of rock from St. Paul and St. Herman's Harbors. The rock was placed in a -50 feet deep area in St. Herman's Harbor.
2015	A project condition survey was conducted in July.
2020	A project condition survey was conducted in July.

Table 2 Cost to Date

Project	Description	Cost \$
010168	CG PED Appropriation	1,318,308
	CG PED Costs	1,318,308
	CG Appropriation	17,153,750
	CG Costs	17,153,750
	CG Contributed Appropriation	1,843,166
	CG Contributed Costs	1,843,166
	O&M Appropriation	118,586
	O&M Costs	118,586
320418	O&M Appropriation	5,684,433
	O&M Costs	5,684,433

Note: Costs are combined among St. Paul Harbor, St. Herman's Harbor, and Near Island Channel

Table 3 Range of Tides in feet

Current Tide Station	Mean Range	Diurnal Range	Extreme Range
945 7292, Kodiak Island, Womens Bay	6.78	8.78	17.46

NOAA Publication Date: 02/16/2018

Legacy Tide Station	Mean Range	Diurnal Range	Extreme Range
945 7283 Kodiak, St Pauls Harbor	6.65	8.7	16.48

NOAA Publication Date: 01/10/2005

Controlling Depth In July 2020 the -12 feet MLLW entrance channel of St. Herman's Harbor has a controlling depth of +5.2 feet MLLW along the western edge.

St. Herman's Harbor, Kodiak, Alaska



Oblique of St. Herman's Harbor, March 2015



St. Herman's Harbor, March 2015