

Sand Point Harbor

Condition of Improvements
31 December 2022
Sand Point Harbor
Sand Point, Alaska
(CWIS No. 010392)

Authorization This project was authorized in PL 106-53, Section 101 (a) (2), Water Resources Development Act of 1999 on August 17, 1999. (2) SAND POINT HARBOR, ALASKA. The project for navigation, Sand Point Harbor, Alaska: Report of the Chief of Engineers dated October 13, 1998, at a total cost of \$11,760,000, with an estimated Federal cost of \$6,964,000 and an estimated non-Federal cost of \$4,796,000.

Table 1

Existing Project	Length ft.	Width ft.	Depth ft.
Entrance Channel	250	120	-18
Basin (Local)	700	500	-17
Rubble-mound Basin Breakwater	1125		

Project Usage The project provides protected moorage for 37 local and transient commercial fishing boats with provision to allow one-way traffic of vessels 150 feet in length with a 34-foot beam and 10.5 foot draft. Fishing (seining and trolling) and fish processing are important parts of the Sand Point economy.

Description of Project The project consists of a 1,125 feet of rubble mound breakwater with a crest elevation of +18 ft. MLLW protecting an 8.6 acre mooring basin adjacent to Robert E. Galovin Harbor and sharing the same entrance channel. There is a 24 foot wide causeway constructed at an elevation of +14 ft. MLLW down the centerline of the breakwater to access an existing city and ferry dock. The breakwater is designed to withstand the forces of a 6.6 foot wave. The entrance channel was constructed by removing 120 ft. of the Humboldt/Robert E. Galovin south breakwater then re-armoring to protect the side slope of the channel.

Progress of Work

2005	Project was awarded to Western Marine Construction and construction started. An accepted value engineering proposal changes the layout of the project from the construction of two rubblemound breakwaters (570 feet and 730 feet long) with an entrance channel between to one 1,125 foot rubblemound breakwater and a shared entrance channel with Humboldt/Robert E. Galovin Harbor.
2007	Project was completed.
2010	A condition survey was completed in July.
2014	A condition survey was completed in July.
2017	A Section 408 permission request to construct a new city dock on the breakwater is submitted in October. Work involves partial deconstruction of the breakwater, placement of fill, construction of a pile supported dock and a new rock revetment tied into the existing breakwater.
2018	Section 408 permission for the new City Dock is issued in October. Maintenance of the breakwater will be limited to those areas around the new dock which are accessible from the top of the breakwater or from a floating plant. The City of Sand Point and the Aleutians East Borough are responsible for maintenance of the causeway and utilities.
2019	A condition survey is completed in May. The AKDOT awards a contract to Western Marine Construction for construction of the new City Dock. Construction is completed in November and a USACE inspection determined the breakwater reconstruction complied with the Section 408 rock placement requirements.
2020	A magnitude 7.8 earthquake occurs on July 21st with an epicenter approximately 60 miles southeast of Sand Point. The breakwater is surveyed in August and inspected in September. The breakwater slopes appeared to be in good condition showing neat slope lines with no evidence of stone movement down the slopes. Armor stone had good stone to stone contact. Settlement occurred where the causeway road on the breakwater crest abuts the new City Dock and the old dock on the breakwater. At the time of the inspection, there was a 6 inch to 18 inch drop from the top of the docks to the top of the causeway road. No repair work is recommended because the breakwater is intact and able to perform the function of protecting the mooring areas of the harbor.

Table 2 Cost to Date

Project	Description	Cost \$
010392	GI PED Appropriations	409,334
	GI PED Costs	409,334
	CG Appropriations	10,570,000
	CG Costs	9,931,831
	CG Contributed Appropriations	2,855,821
	CG Contributed Costs	2,855,810

Table 3 Range of Tides in feet

Tide Station	Mean Range	Diurnal Range	Extreme Range
945 9450 Sand Point AK	5.19	7.23	15.40

NOAA Publication Date: 10/06/2011

Controlling Depth A depth of -14.4 feet MLLW controls the entrance channel in August 2020.

Environmental Permits and Reports

1. The following authorizations and permits are listed by agency below:

Table 4 Environmental Permits

Agency Name	Date of Issue	Date of Expiration
USACE FONSI - Original Harbor Design	April 24, 1998	n/a
ADEC Water Quality Cert - Original Design	March 24, 1998	n/a
USACE FONSI - Revised Harbor Design	July 2005	n/a
ADEC Water Quality Cert - Revised Design	September 15, 2005	n/a

New Harbor, Sand Point, Alaska



West oblique of Sand Point New Harbor, July 2014



Sand Point New Harbor entrance channel, May 2019