

Haines Harbor

Condition of Improvements
31 December 2022
Haines Harbor, Alaska
(CWIS No. 013576, 087015, 150037)

Authorization Rivers and Harbors Act, 14 July 1960 (Report in Office of Chief of Engineers) adopted as amended under Section 107, 21 December 1971, provides for enlarging an existing non-federal small boat harbor from 1.8 acres at -10 feet MLLW to 4.2 acres at -12 feet MLLW and -14 feet MLLW; construction of an entrance channel 75 to 100 feet wide at -15 feet MLLW; modification of the breakwater protection by removal of the existing seaward leg and construction of an offshore breakwater 905 feet in length with armor rock protection. The basin enlargement is to be funded by local interests.

Table 1

Existing Project	Length ft.	Width ft.	Depth ft.
Entrance Channel	555	75-110	-15
Basin	4.2 acres		-11,-12,-14
Breakwater (detached)	905		

Project Usage The small boat harbor is used by local and transient fishermen primarily employed by halibut and gillnet salmon fishing; the harbor (200 vessel capacity) is also home to resident recreational craft. Haines is an important link in the Alaska Marine Highway system. It is located at the southern end of the Haines Highway, linking southeastern Alaska by road with the Interior, the Southcentral region, and the Yukon Territory.

Progress of Work

1976	Construction contract is awarded in May. Expansion of the small boat basin begins in June with the removal of the seaward leg of the existing breakwater and dredging of the basin to 12 feet and 14 feet MLLW. Dredging of the entrance channel to -15 feet MLLW is accomplished in September 1976. Construction of the detached breakwater and completion of the contract are finalized in December.
2000	A condition survey is conducted in May.
2003	Vertical and oblique aerial photography is taken in May.

Progress of Work

2004	A condition survey is conducted in June.
2008	A project condition survey was conducted in June 2008. The report found that the harbor infrastructure is in poor repair. Numerous shoals were corroborated by the survey. A boulder/hazard to navigation 30 feet south of the breakwater was sited but is not shown on the survey and may not be within the project site.
2011	A project condition survey was completed in July. The total material available to Project Depths is 1,387 CY.
2015	A project condition survey was completed in June. The total material available to Project Depths is 5,024 CY.
2016	A Section 408 permission is issued in May for the Haines Borough to construct a new pile supported wave barrier wall that ties into the southern end of the federally-owned 905 foot detached rubble mound breakwater.
2018	Construction of the new wave barrier is completed in May but the rock work at the breakwater nose where the wave barrier ties in was not in accordance with USACE Section 408 rock placement requirements. After rework by the Haines Borough's contractor, an inspection in June determined that the breakwater nose met Section 408 requirements.
2019	A one-year inspection of the breakwater nose, where the new wave barrier ties in, is conducted in August and it is found to be in good condition.
2021	A project condition survey was completed in May. The total material available to Project Depths is 672 CY.

Table 2 Cost to Date

Project	Description	Cost \$
13576	GI PED Appropriations	995,313
	GI PED Costs	823,076
	CG Contributed Appropriations	50,000
	CG Contributed Costs	15,887
	O&M Costs	24,077
	GI PED Contributed Appropriations	356,269
	GI PED Contributed Costs	283,400
150037	CG Appropriation Sec 107	1,265,000
	CG Costs Sec 107	1,265,000
	CG Appropriations	85,000
	CG Costs	84,694

Table 3 Range of Tides in feet

Tide Station	Mean Range	Diurnal Range	Extreme Range
945 2421 Chilkat Inlet AK	13.88	16.47	-

NOAA Publication Date: 07/02/2018

Controlling Depth: In May of 2021 a depth of -14.1 feet MLLW controls the entrance channel near the southeasterly end of the channel. A depth of -9.2 feet MLLW at the northwest corner controls the east basin (with a project depth of -14 feet). A depth of -6.7 feet MLLW on the northwest corner controls the west basin (with a -12 feet project depth). A depth of -4.9 feet MLLW controls the North basin along the northwesterly toe.

Haines Harbor, Haines, Alaska



Aerial of Haines Harbor, July 2011



Haines Harbor, May 2021

Haines Harbor, Haines, Alaska



Haines Harbor Wave Barrier at Entrance Channel, May 2021



Haines Harbor Wave Barrier May 2021