

# **Seldovia Harbor**



# Condition of Improvements

## 31 December 2022

### **Seldovia Harbor, Alaska**

#### (CWIS No. 072763, 087348, 087626)

**Authorization** (1) Rivers and Harbors Act, 2 March 1945 (House Doc. 702, 76th Congress, 1st Session) as adopted, provides for removal of obstructions in the entrance channel near Watch Point to a depth of 24 feet below MLLW. (2) Rivers and Harbors Act, 3 July 1958 (House Doc. 34, 85th Congress, 1st Session) as adopted, provides for a small boat basin 300 feet long by 700 feet wide to a depth of 12 feet below MLLW protected by two rock breakwaters 400 and 600 feet long.

**Table 1**

Existing Project	Length ft.	Width ft.	Depth ft.
Channel	1250	300	-24
Basin (Federal)	3.85 acres		-12
Basin (local)	2.67 acres		-12
Entrance Channel (to basin)	423	60-116	-12
North Breakwater	400		
South Breakwater	600		

**Project Usage** The small boat basin provides protected moorage for 140 fishing vessels. Improvement of the outer channel eliminates delays due to tides, permits use of larger vessels, facilitates deep-draft cargo operations at the port, and assures greater safety for vessels calling at Seldovia. Seldovia is economically dependent on the lumber and fishing industries and its crab cannery, which is the main plant serving the Cook Inlet area.

#### **Progress of Work**

1960	Hydrographic surveys and pre-design investigations are carried out.
1961	The project is modified during the design stage as follows: Reef No. 2 is to be removed completely to the 21 foot depth (instead of partial removal to -24 feet), minor relocation of the basin and breakwaters, and modification of the basin's shape. Basin dredging begins in October with suitable material utilized as breakwater core.

## Progress of Work

1962	Drilling and blasting operations begin in the outer channel in February and are completed in April; final dredging in the basin is finished in April as well. Work on the breakwaters continues until completion in December.
1964	The earthquake of 27 March 1964 damages the breakwaters and inner harbor facilities; a subsidence of 3.8 feet is reported. Rehabilitation of the Federal project by increasing the elevation of the breakwaters by 4 feet is initiated in June and completed in October.
2002	Vertical aerial photography is taken in June.
2003	A condition survey of both the harbor and the deep draft channel is conducted in June.
2006	Condition surveys of both the channel and harbor are completed in May.
2010	A project condition survey was completed in September.
2011	USACE Comprehensive Evaluation of Project Datums (CEPD) Compliance report completed and recorded in January.
2015	A project condition survey was completed in August.
2019	A project condition survey of both the channel and harbor are completed in June and July.

**Table 2 Cost to Date**

Project	Description	Cost \$
087348	CG Appropriation	5,000
	CG Costs	5,000
087626	CG Appropriation	1,059,383
	CG Costs	1,059,383
	O&M Costs	61,061

**Table 3 Range of Tides in feet**

Tide Station	Mean Range	Diurnal Range	Extreme Range
945 5500 Seldovia, Cook Inlet AK	15.53	18.04	32.23

*NOAA Publication Date: 02/16/2018*

**Controlling Depth** In July 2019, Reef No. 1 in the deep draft channel was sounded at -24.5 feet MLLW and Reef No. 2 at -23.6 feet MLLW; the northeast corner of the deep draft channel was shoaled to -18.0 feet MLLW. The vast majority of the Federal basin also meets or exceeds project depth; interior basin boundaries include points that are -8.0 feet MLLW. The float configuration is such that for vessels transiting the interior areas of the Local basin, -4.0 feet MLLW controls in July 2019.

# Seldovia Harbor and Channel, Seldovia, Alaska



Northwest oblique of Seldovia Harbor, August 2015



Seldovia Harbor, August 2015



# Seldovia Harbor and Channel, Seldovia, Alaska



Northeast oblique of Seldovia Channel, August 2015



Seldovia Channel, August 2015