

# Rocky Pass



# Condition of Improvements 31 December 2022 **Rocky Pass in Keku Strait, Alaska** (CWIS No. 072762)

**Authorization** Rivers and Harbors Act, 3 September 1954 (House Doc. 414, 83rd Congress, 2nd Session) as adopted, provides for a channel to a depth of 5 feet below MLLW by removal of obstructions at 17 separate locations. The channel widths are to vary according to difficulties encountered in navigation; channel width to be 150 feet at the Summit and 200 feet at Devil's Elbow.

**Table 1**

Existing Project	Length ft.	Width ft.	Depth ft.
Entire pass	18 mi.		
The Summit	5000	150	-5
Devil's Elbow	1700	200	-5

**Project Usage** Removal of hazards in the channel creates the shortest safe passage through central Southeastern Alaska for vessels with drafts up to 12 feet including tugboats, fishing vessels, cannery tenders, and log rafts.

## **Progress of Work**

1958	A joint contract with the Dry Pass project is awarded in October.
1959	Blasting and rock removal begins in September.
1960	The channel is completed to project depths and widths in January.
1977	A condition survey is conducted in January.
2001	A condition survey is conducted in April with multi-beam techniques.
2005	Vertical and oblique aerial photography is taken in April.
2007	A condition survey is conducted in May.
2013	A condition survey is conducted in July. USACE Comprehensive Evaluation of Project Datums (CEPD) Compliance report completed and recorded in November.
2018	A project condition survey was conducted in April, both The Summit and Devil's Elbow were surveyed using multi-beam techniques.
2022	A project condition survey was conducted in August, both The Summit and Devil's Elbow were surveyed.

**Table 2 Cost to Date**

Project	Description	Cost \$
072762	New work	337,668
	Maintenance	78,513
	Total	416,181

**Table 3 Range of Tides in feet**

Tide Station	Mean Range	Diurnal Range	Extreme Range
945 1349 The Summit, NW Summit Island AK	12.71	15.19	-

NOAA Publication Date: 09/17/2008

**Controlling Depth** Project depth is effectively available through both channels, August 2022. The controlling depth for Devil's Elbow is -4.3 feet, located in the center of the channel easterly of Day Beacon 23305.9. The controlling depth for The Summit is -3.8 feet located along the East half of the channel near the northern end.

# Rocky Pass, Keku Strait, Alaska



Oblique of Rocky Pass, 2005.



Oblique of Devil's Elbow in Rocky Pass, 2005.



# Rocky Pass, Keku Strait, Alaska



Rocky Pass, Devils Elbow, 2022.



Rocky Pass, The Summit, 2022.