

Petersburg Harbor

Condition of Improvements

31 December 2022

Petersburg Harbor, Alaska

(CWIS No. 072759)

Authorization Rivers and Harbors Act, 30 August 1935 (House Doc. 483, 72nd Congress, 2nd Session) as adopted, provides for dredging suitable approaches to the existing wharves to a depth of 24 feet below MLLW, a small boat basin to a depth of -11 feet MLLW between Trading Union Wharf and Citizens Wharf (now Petersburg Cold Storage and Kayler-Dhal Wharves) to a line following the original MLLW line (an area of approximately 5.7 acres), and dredging a channel 40 feet wide to a depth of 8 feet below MLLW on the south side of the Forest Service float.

Additional Authorization (1) Rivers and Harbors Act, 2 March 1945 (House Doc. 670, 76th Congress, 3rd Session) as adopted, provides for enlargement of the small boat basin shoreward over an area of approximately 3.10 acres at a depth of 11 feet below MLLW. (2) Rivers and Harbors Act, 2 September 1954 (House Doc. 501, 83rd Congress, 2nd Session) as adopted, provides for increasing the depth of the outer one-third of the small boat basin to a depth of 15 feet below MLLW.

Table 1

Existing Project	Length ft.	Width ft.	Depth ft.
Basin	8.8 acres		-11, -15
Approach to wharves *	1450	varies	-24
Forest Service channel	150	40	-8

* outside dock to outside dock

Project Usage The small boat basin (North Harbor) is used as a base of operations for 300 commercial vessels. The town boasts the largest home-based halibut fleet in the world and is also known for its shrimp, crab, salmon, herring and other fish products.

Progress of Work

1937	The original project is successfully completed.
1957	Shoreward enlargement of the basin and dredging the outer one third of the basin to -15 feet MLLW is completed.
1969	Maintenance dredging occurs in the south end of the basin in June.
1971	Dredging is resumed in the south end of the basin in October until project depth is obtained.
2000	A condition survey is accomplished in May with a multi-beam system.
2003	The latest condition survey of the North Harbor is conducted in March. The Forest Service berth has been moved south of the South Harbor.
2005	Vertical and oblique aerial photography are taken in April.
2008	A project condition survey was conducted in April and May. The vertical datum was updated to +0.72 feet. The Forest Service berth has been taken over by Ocean Beauty Seafood. Project depth appears available for access to most of the float system, but the berths themselves show depths ranging from 8 to 11 feet. In all likelihood, dredging activity would involve moving the whole float system.
2011	A project condition survey was conducted in September.
2012	A contract was awarded to S&S Construction for mechanical dredging of the harbor.
2013	USACE Comprehensive Evaluation of Project Datums (CEPD) Compliance report completed and recorded in April. Harbor dredging started in September and was completed in November. Material was stockpiled on the metals pile at the Petersburg Landfill for use as cover.
2017	A project condition survey was conducted in June by the Buffalo District.
2022	A project condition survey was conducted in late May and early June.

Table 2 Cost to Date

Project	Description	Cost \$
072759	CG	252,932
	O&M Appropriation	3,627,935
	O&M Costs	3,627,936

Table 3 Range of Tides in feet

Tide Station	Mean Range	Diurnal Range	Extreme Range
945 1434 Turn Point AK	13.68	16.07	-

NOAA Publication Date: 06/08/2009

Controlling Depth Project depth is effectively available throughout the Federal portion of the basin, June 2022. Controlling depth is -8.1 feet near the cannery dock of the East basin, -12.8 feet in the Northern end of the West basin and -17.4 feet in the approach to the wharves.

Maintenance Dredging Supplement

A. Sampling & Testing

1. Bulk composite samples representing four different areas were collected and sampled, April 2011. The samples were submitted for Synthetic Precipitation Leaching Procedure (SW1312) or the Standard Elutriate Test (SET) followed by the analysis of fuels, metals, and polynuclear aromatic hydrocarbons.
2. Chemical analysis was conducted using (9) test methods as outlined with results below

Table 4 Chemical Testing

Method	Chemical analysis	Results
SET AK 102/103	Diesel Range Organics / Residual Range Organics	ND or below minimum levels
SW1312	Diesel Range Organics	All below project screening limits
AK 102/103	Residual Range Organics	All below project screening limits
SET / 6020	(3) RCRA Metals	(3) of (3) detected; Copper 6.4 - 12 ppm, all others none detected (ND) or below minimum levels
SW1312/6020	(3) RCRA Metals)	(2) of (3) detected; ND or below cleanup levels
SET/8270SIM	Polynuclear Aromatic Hydrocarbons	ND or below minimum levels
SW1312/8270SIM	Polynuclear Aromatic Hydrocarbons	ND or below minimum levels
9095	Free Liquids (yes/no)	"No" for all samples

Project limits are defined by ADEC 18 AAC 75 Method 2 Table B1 and B2 Cleanup Level and the Screening Quick Reference Table (SQuiRTs).

Petersburg Harbor, Petersburg, Alaska



Oblique image of Petersburg Harbor, June 2017



Dredging operations in Petersburg Harbor, 1 October 2013