

# **Wrangell Heritage Harbor**



Condition of Improvements  
 31 December 2019  
**Heritage Harbor**  
**Wrangell, Alaska**  
 (CWIS Nos. 010435 & 021500)

**Authorization** (1) WRDA 99 authorizes the construction of Heritage Harbor to include two breakwaters, an entrance channel, and inner harbor area. (2) WRDA 2007 Section 5035 provides (a) General Navigation Features - In carrying out the project for navigation, Wrangell Harbor, Alaska, authorized by section 101(b)(1) of the Water Resources Development Act of 1999 (113 Stat. 279), the Secretary shall consider the dredging of the mooring basin and construction of the inner harbor facilities to be general navigation features for purposes of estimating the non-Federal share of project costs.

**Table 1**

<b>Existing Project</b>	<b>Length ft.</b>	<b>Width ft.</b>	<b>Depth ft.</b>
Entrance Channel	650	120	-16
Maneuvering Channel	1050	80	-12
Basin (maintained by others)	1215	525	-12
North Breakwater	542		
West Breakwater	1802		

**Project Usage** The original interconnected small boat basins have a capacity of 300 vessels and are used as an operating base for commercial fishing. Heritage Harbor can accommodate up to 271 vessels with lengths from 19 to 66 feet. The City of Wrangell has a dual economy based on the timber and fishing industries.

**Progress of Work**

2004	Construction begins on Heritage Harbor in June.
2005	Construction of Heritage Harbor is completed in April.
2007	A project condition survey is completed for Heritage Harbor in May.
2009	A project condition survey was completed for Heritage Harbor in August.

## Progress of Work

2014	USACE Comprehensive Evaluation of Project Datums Compliance report completed and recorded in January.
2015	A project condition survey is completed in July.
2019	A project condition survey is completed in August.

**Table 2 Cost to Date**

Project	Description	Cost \$
010435	GI PED Appropriations	386,000
	GI PED Costs	386,000
	GI PED Contributed Appropriations	150,000
	GI PED Contributed Costs	110,642
	CG Appropriation	13,114,437
	CG Costs	13,087,656
	CG Contributed Appropriations	3,071,450
	CG Contributed Costs	3,119,380
021500	O&M Appropriation	1,121,339
	O&M Costs	1,121,339

*Note: Costs for Wrangell Harbor and Heritage Harbor are combined.*

**Table 3 Range of Tides in feet**

Tide Station	Mean Range	Diurnal Range	Extreme Range
945 1204 Wrangell, Wrangell Island AK	13.57	15.96	-

*NOAA Publication Date: 07/15/2004*

**Controlling Depth** In August 2019 project depth is available through the Entrance Channel of Heritage Harbor. A depth of -5.0 feet MLLW controls in the Maneuvering Channel near the south end of the project limits.

## Maintenance Dredging Supplement

### A. General

1. The “no-dredging” window runs from 15 March to 1 June as established by the State of Alaska.

### B. Sampling & Testing

1. Three sites were sampled within the Federal project, September 1992, and classified as silty sand (SM), sandy silt (ML), and silt with sand (ML).
2. Chemical analysis was conducted using (5) test methods as outlined with results below.

**Table 4 Chemical Testing**

Method	Chemical analysis	Results
415.1 Series 6000-7000's	Total Organic Carbon (8) RCRA Metals	ND (none detected)- 3.48 % (6) of (8) detected; Mercury 0.3 - 0.5 marginal, all others below management levels
8270	Semi-volatile Organics	(12) above management levels
8080	Pesticides and PCB's	ND
8260	Volatile Organic Compounds	Methylene Chloride 25 - 58 ppb,* all others ND or below management levels

*\* Low levels detected in all samples; laboratory contamination suspected.*

### C. Disposal

1. Dredge spoils were conveyed via portable pipeline and discharged in the deep-water of Zimovia Strait. The primary intertidal site north of project, with center at 56°28'13.33"N 132°22'50"W, was not utilized.
2. The deep-water disposal site is located a minimum of 900 feet west of the main breakwater tip in water 100 feet deep or greater. The offshore geographic coordinates for a single discharge point are 56°28'2.5"N and 132°23'19.9"W.

**D.** The future location of the disposal site will have the option of upland or deep water disposal.

### E. Environmental Permits and Reports

1. A Chemical Data Report was prepared by the Corps in February 1993, an Environmental Assessment was completed in April 1993, and a Finding of No Significant Impact (FONSI) was signed 13 August 1993.
2. The following permits or authorizations are listed by agency below:

**Table 5 Environmental Permits**

<b>Agency Name</b>	<b>Date of Issue</b>	<b>Date of Expiration</b>
AK Department of Environmental Conservation	August 4, 1993	n/a
AK Department of Governmental Coordination	July 22, 1993	n/a
AK Department of Natural Resources	July 15, 1993	n/a
US Fish and Wildlife Service	July 6, 1993	n/a
NOAA -National Marine Fishing Service	April 14, 1993	n/a

3. Water Quality: Five physical parameters were measured through the water column at three locations within the federal project; temperature, salinity, pH, oxidation-reduction potential, and conductivity were measured in the field. No chemical analysis was conducted.

# Heritage Harbor, Wrangell, Alaska



Oblique of Heritage Harbor, July 2015.



Heritage Harbor Entrance Channel and Breakwaters, July 2015.

# Heritage Harbor, Wrangell, Alaska



Heritage Harbor, August 2019



Heritage Harbor Breakwater, August 2019