

Valdez New Harbor

Condition of Improvements
31 December 2019
Valdez New Harbor, Alaska
(CWIS No. 010600)

Authorization Water Resources Development Act of 2007, Section 4012, Public Law 110-114 provides for a new harbor adjacent Hotel Hill and east of the existing harbor. The project includes a 460 feet long stub breakwater, a 1,850 feet long detached breakwater, and 1,000 feet long east breakwater. These three sections of rubble mound breakwaters protect the new 14 acre basin with an entrance channel dredged to -18.5 feet MLLW and a maneuvering channel varying in dredged depth from -18.5 feet to -13.5 feet MLLW.

Table 1

Existing Project	Length ft.	Width ft.	Depth ft.
Basin (local)	637	275	-18.5
Basin (local)	730	330	-13.5
Entrance Channel	1065	130	-18.5
Stub Breakwater	525		
South Breakwater	1810		
East Breakwater	985		

Project Usage The New Valdez small boat harbor provides protected moorage for local and transient commercial fishing vessels as well as recreational craft. Valdez is located at the terminus of the trans-Alaska pipeline and is accessible by sea, air, and the Alaska Highway system.

Progress of Work

2015	A project condition survey of the existing harbor was completed in July. A contract for the new harbor is awarded and rock production begins.
2016	Construction continues with building of the breakwaters and dredging of the basin.
2017	Construction of the New harbor south of Hotel Hill is completed. A dredge verification survey was completed by eTRAC in September for the Alaska District.

Table 2 Cost to Date

Project	Description	Cost \$
010600	GI PED Appropriations (90/10)	806,666
	GI PED Costs (80/20)	672,222
	GI PED Contributed Appropriations (90/10)	89,629
	GI PED Contributed Costs (80/20)	224,074
	CG Appropriations	20,752,856
	CG Costs	18,355,033
	CG Contributed Appropriations	4,554,010
	CG Contributed Costs	4,532,740

Table 3 Range of Tides in feet

Tide Station	Mean Range	Diurnal Range	Extreme Range
945 4240 Valdez, Prince William Sound AK	9.70	12.15	22.50

NOAA Publication Date: 09/30/2011

Controlling Depth In September 2017 a controlling depth of -18.5 feet MLLW can be found throughout the entrance channel. Both of the Local Basins were dredge to required depths of -18.5 and -13.5.

Maintenance Dredging Supplement

A. Disposal

1. Dredge spoils were transported and discharged in a permitted deep water (-600') site approximately ¼ of a mile off shore in the port of Valdez.

Table 4 Chemical Testing

Method	Chemical analysis	Results
8080 Series 6000-7000's	Pesticides and PCB's (8) RCRA Metals	ND (none detected) (4) of (8) detected; Mercury 14 - 21 ppm, all others below management thresholds
415.1	Total Organic Carbon	0.48 - 1.09 %
305.2	Ammonia as Nitrogen	2.2 - 19 ppm
9030	Total Sulfides	15 - 2500 ppm
160.1	Percent Solids	46.5 - 65.2 %
8260	Volatile Organic Compounds	ND or below management levels
8270	Semi-volatile Organics	Chrysene ND - 2.63 ppm, Fluoranthene ND - 5.61 ppm, Phenanthrene ND - 2.98 ppm, all others below management levels or ND

Valdez New Harbor, Valdez Alaska



Valdez New Harbor Aerial View, May 2017



Final Dredging and Armor Rock Placement, May 2017