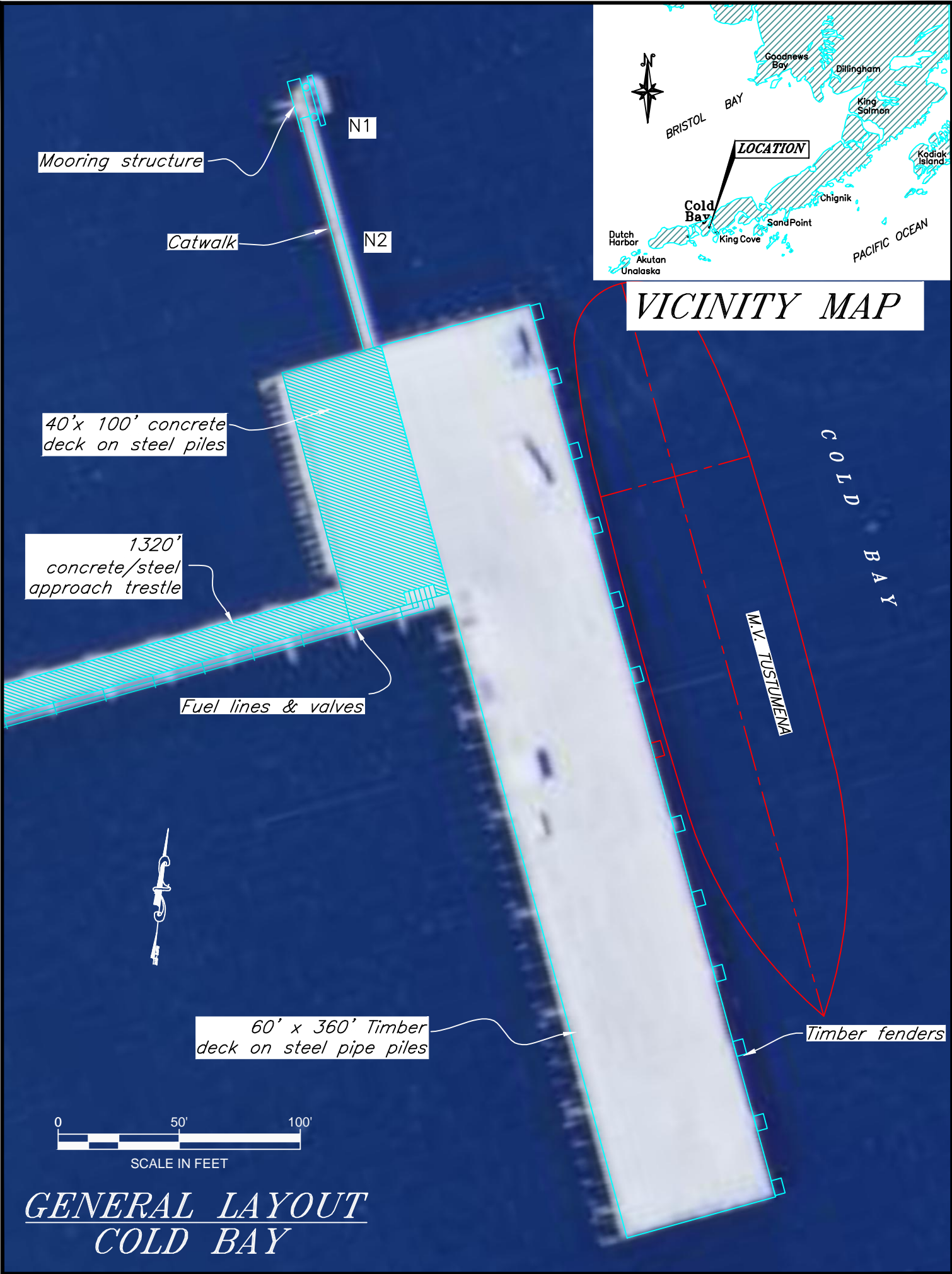


**VICINITY MAP**



Mooring structure

N1

Catwalk

N2

40' x 100' concrete deck on steel piles

1320' concrete/steel approach trestle

Fuel lines & valves

60' x 360' Timber deck on steel pipe piles

Timber fenders

M.V. TUSTUMENA

COLD BAY



SCALE IN FEET

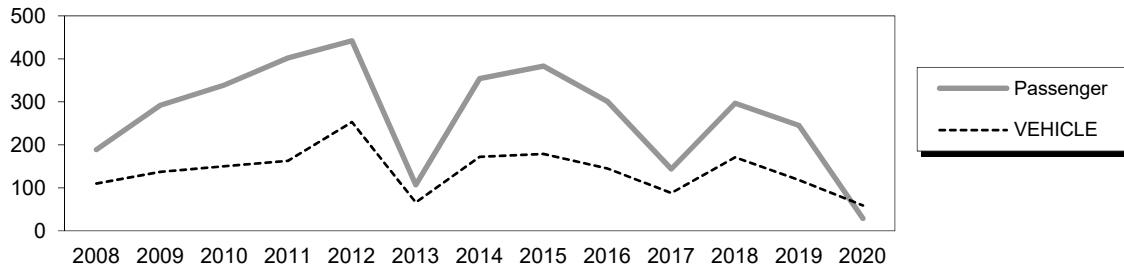
**GENERAL LAYOUT  
COLD BAY**

# Cold Bay Dock

**Owner:** Aleutians East Borough

**Contact:** Kurt Uttecht, Public Works Director, City of Cold Bay 907-532-2684

**Terminal Description:** The M/V TUSTUMENA docks at the Cold Bay Dock during its passage through the Aleutian Chain. The Cold Bay facility is made up of two dock sections that were constructed at different times. The original structure, designed and built by the State in 1978 consisted of a 100' x 40' concrete panel dock and a 1,320' long concrete panel approach. There is a mooring dolphin and catwalk northwest of the original dock. In 1993, a 360' x 60' addition was constructed to the northeast of the original dock; the newer dock abuts the face of the original structure. The facility is owned by the Aleutian East Borough and managed by the City of Cold Bay. The past 12 years of total passenger and vehicle traffic at Cold Bay is shown below. The M/V Tustumena was out of service most of 2013, causing a steep dropoff in traffic at the terminal. The global pandemic caused the decline in 2020.



The most recent above water survey & fracture critical inspection were completed on August 08-10, 2022. The most recent underwater inspection occurred on August 13, 2018.

Vessels	
Name	Berthing, Alignment
Tustumena	Starboard

Tidal Data (MLLW=0.0 feet)	
Highest Observed	11.6
MHHW	7.2
MHW	6.5
Lowest Observed	-3.7

Terminal Building
This facility does not have a terminal building.

Generator & Building
This facility does not have a generator on-site.

Utilities @ Dock	
Water:	Yes (lines replaced in 1998)
Fuel:	Yes (lines replaced in 2006)

Uplands	
Short-Term Parking:	N/A
Long-Term Parking:	N/A
Staging Area:	N/A

Original L-Shaped Dock - #1755	
Dimensions:	12' x 1824' approach 40' x 100' main dock
Type:	Approach: concrete panel/steel framing, Main Dock: concrete dy-core panels/ steel framing
Year Built:	1978
Dock Support:	16" dia. Steel piles with steel WF-beam pile caps
Pile Coating:	Epoxy/Galvanizing
Anodes:	Yes, welded directly to piling with bond cables to pile caps. Cables replaced in 1998.
Lighting:	None
Condition:	Fair
Notes:	The approach has two vehicle turnouts, located on the northwest side of the trestle.
Load Posting Sign:	N/A
Design Load:	HS 20-44 / 400 psf

<b>Dock Addition</b>	
Type:	360' x 60' steel beam and timber decking
Year Built:	1993
Dock Support:	Steel pile bents spaced ~30' o.c. Each bent has (4)-26" dia. Vertical steel piles & (1) batter pile connected to steel H-pile caps. Salvaged W36x182 bridge beams span the length, with pressure-treated 12x12 timber stringers and 4x12 timber decking above.
Pile Coating:	All steel is uncoated.
Fenders:	13 timber-faced pin pile fender units, spaced roughly 30' o.c. along northeast face of dock. The ends and southwest face of the dock are protected with treated timber pile fenders.
Anodes:	(39) 200# aluminum anodes suspended from the superstructures by galvanized wire rope. The City replaced the cables in 1998.
Lighting:	None
Condition:	Poor
Load Posting Sign:	N/A
Design Load:	HS 20-44 / 350 psf

<b>Dolphins</b>							
Dolphin	Dolphin Piles	Fender Support	Fender Face	Anodes	Built	Cond.	Notes
N1	1B, 2V	4V	Sitka Spruce	Yes	1978	Good	Red Navlight
N2	1V	-	-	Yes	1978	Good	

<b>Catwalks / Gangways</b>							
#	From Struct.	To Struct.	Length / Style	Built	Safety Chains?	Cond.	Lighting
C1	Dock	N2	54' / Catwalk / W21x55 Girders	1978	Yes	Good	None
C2	N2	N1	54' / Catwalk / W21x55 Girders	1978	Yes	Good	None

<b>Terminal Projects</b>			
Year	Project #	Project Name	Description
1978	6-77428	Cold Bay Dock	Removed existing timber dock and constructed a new 12 foot x 1824 foot approach span and new 40' x 100' main dock. The decking was precast/prestressed concrete panels and the superstructure consisted of steel pile caps and steel pipe piles. Two new mooring dolphins were placed north and south of the main dock,
1993	91097.03	Cold Bay Dock	Constructed new 60 foot x 360 foot dock off shore of existing dock. Deck consisted of 4x12 timber supported by 12x12 timber stringers. The stringers were supported by steel W-girders, HP-pile caps, and pipe piles. 13 pin-pile berthing fenders were placed on the offshore face of the dock.
2015	67714	Cold Bay Dock Rehabilitation	Refurbishment of 13 fender panels, Replacement of six precast/pretension deck panels, Renovation or replacement of 11 ladders, Replacement of 80 feet of timber bullrail, and other miscellaneous repairs.

## GENERAL FACILITY EVALUATION

<b>Facility Component</b>	<b>Rating</b>
Uplands	4
Approach Dock	5
Main Dock	4
Fendering System	7

9	EXCELLENT CONDITION
8	VERY GOOD CONDITION - no problems noted
7	GOOD CONDITION - some minor problems.
6	SATISFACTORY CONDITION - structural elements show minor deterioration
5	FAIR CONDITION - all primary structural elements are sound but may have minor corrosion, cracking or chipping. May include minor erosion on bridge piers.
4	POOR CONDITION - advanced corrosion, deterioration, cracking or chipping. Also significant erosion of concrete bridge piers.
3	SERIOUS CONDITION - corrosion, deterioration, cracking and chipping, or erosion of concrete bridge piers have seriously affected deck, superstructure, or substructure. Local failures are possible.
2	CRITICAL CONDITION - advanced deterioration of deck, superstructure, or substructure. May have cracks in steel or concrete, or erosion may have removed substructure support. It may be necessary to close the bridge until corrective action is taken.
1	"IMMINENT" FAILURE CONDITION - major deterioration or corrosion in deck, superstructure, or substructure, or obvious vertical or horizontal movement affecting structure stability. Bridge is closed to traffic but corrective action may put back in light service.
0	FAILED CONDITION - out of service - beyond corrective action
N	Not applicable

For a copy of the latest facility inspection reports contact the AK DOT&PF Marine Design Department. Contact information is located in the Comments and Feedback section.