

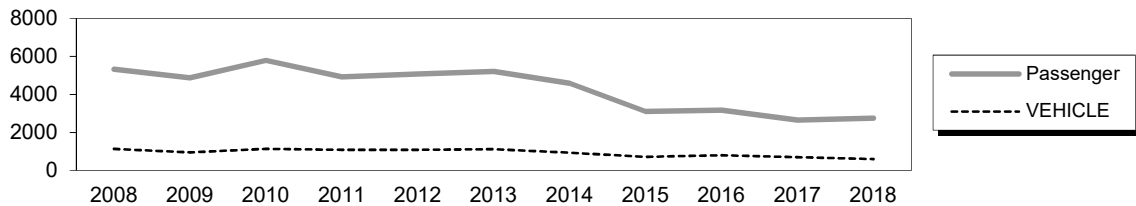
Kake Ferry Terminal

264 Keku Road

Owner: State of Alaska

Contact: Simon Bradley, AMHS Terminal Ops Manager (Ketchikan) – 907-228-7290

Terminal Description: Kake Ferry Terminal was originally constructed in 1974 to provide service to the communities of Kupreanof Island via the LeCONTE Class vessels. A new mooring dolphin (W5) was added in 2006 to allow service by the larger AMHS vessels. The M/V LeConte no longer visits Kake. Kake is a side-berth facility consisting of a transfer bridge, steel support float, and eight steel mooring dolphins. This terminal is capable of berthing all AMHS vessels. Uplands include an open waiting shelter, paved parking and overhead lighting. Kake’s past 10 years of total passenger and vehicle traffic counts are shown below.



The most recent above water survey was completed June 28, 2021 . The underwater inspection occurred on August 13, 2021.

Vessels	
Name	Berthing, Alignment
Malaspina / Matanuska	Port
Taku	Port
LeConte / Aurora	Port

Uplands	
Short-Term Parking:	8 cars
Long-Term Parking:	0
Staging Area:	200 lineal feet, 1 lane
Paint Striping:	No
Driving Surface:	Asphalt

Tidal Data (MLLW 0.0 feet)	
EHW	18.1
MHHW	14.0
MHW	13.2
ELW	-4.6

Terminal Building	
Year Built:	2016
Square Footage:	933 s.f.
Heating System:	Heat Pump & Baseboard
Utilities:	Water, sewer, electric
Fire Protection:	N/A
Condition:	New

Vehicle Transfer Bridge - #0177	
Type:	16' x 132' steel multi-girder open deck
Year Built:	2015
Shoreward support:	Spread footing with tiebacks
Seaward support:	Steel Support Float
Coating:	Wasser Paint
Pedestrian Access:	Concrete 4' wide on bridge
Lighting:	3 light poles
Condition:	New

Bridge Support Float	
Type:	40' x 60' Steel Flexi-float
Year Built:	2015
Ballasted:	Yes
Ramp lift:	Hydraulic/Cable
Apron lift:	Hydraulic/Cable
Anodes:	Yes
Condition:	New
Load Posting Sign:	N/A
Original Design Load:	HS 20-44

Dolphins							
Dolphins	Dolphin Piles	Fender Support	Fender Face	Anodes	Built	Cond.	Notes
W5	2B, 2V	Hanging	UHMW	Yes	2006	New	Red navlight
W4	2B, 1V	4V	Ekki Timber	Yes	1993	Good	
W3	2B, 1V	4V	Ekki Timber	No	1998	Good	
W2	2B, 1V	4V	Ekki Timber	Yes	1998	Good	
W1	2B, 1V	4V	Ekki Timber	Yes	1998	Good	
E1	2B, 1V	4V	Ekki Timber	Yes	1998	Good	
E2	2B, 1V	4V	Ekki Timber	Yes	1993	Good	Windsock
E3	2B, 1V	4V	Ekki Timber	Yes	1993	Good	Red navlight
ERS	2B, 1V	-	-	Yes	1993	Good	
WRS	2B, 1V	-	-	Yes	1993	Good	

LEGEND: ERS = East Float Restraint Structure, B = Battered Steel Pipe Piles, V = Vertical Steel Pipe Piles

Terminal Projects			
Year	Project #	Project Name	Description
1973	S-0915(1)	Kake Ferry Terminal Construction	Original fill onto tidelands, with Shelter and separate vault toilet on uplands; built transfer bridge, flexifloat seaward support (w/ concrete anchors), ramp lift system and four concrete capped, steel pile mooring dolphins (E1, W1-3).
1987	RS-0005(78)	Southeast Secondary Upgrade	Recoated and installed new zincs on flexi-floats; Recoated ramp, apron, transfer bridge; Replaced expanded metal mesh on bridge; Upgrade to dolphin fenders.
1993	75186-RS-0915(3)	Kake Ferry Terminal Mooring Improvements	Installed new mooring structures W4 & E2-3; replaced fender on W1; installed new barge fenders and restraint structures - released chains to concrete anchors and abandoned in place; inspected and replaced ribs on transfer bridge; installed electrical power upgrades.
1994	75377 - STP-0930(5)	Kake Ferry Terminal Ramp & Apron Upgrade	Replaced ramp and apron with newer hydraulically controlled units; installed electrical power upgrades.
1998	75525-STP-0939(6)	Kake Dolphin Replacement & Bridge Rehabilitation	Replaced mooring dolphins W1-3 & E1; re-coated bridge; replaced elastomeric bearing under shoreward swivel beam; replaced west hinge pin on swivel beam; inspected & repaired ribs in 5 seaward bays between floor beams.
2006	67488	Kake & Hoonah Ferry Terminal Dolphins	Install new lead-in dolphin W5.

Terminal Projects (cont'd.)			
Year	Project #	Project Name	Description
2015	68238	Kake Ferry Terminal Improvements	Replaced the older orthotropic bridge and corroding seaward floats with new multi-girder bridge and flexifloats. Replaced the abutment with new spread footing with tiebacks.
2015	SAMHS0002	Kake Ferry Terminal Passenger Facility	Removed dilapidated shelter. Constructed new 20.5' x 45.5' waiting building with indoor plumbing (mens and womens bathrooms), connections to city water and sewer utilities, curb and sidewalk, safety handrail and area lighting.

GENERAL FACILITY EVALUATION

Item		NBI Rating
Item 58	Deck	7
Item 59	Superstructure	8
Item 60	Substructure	7
Item 61	Channel Protection	8
Item 113	Scour	8
Marine	Mooring Structures	6
	Uplands Staging area	7
	Uplands Waiting Building	7
	Utilities	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