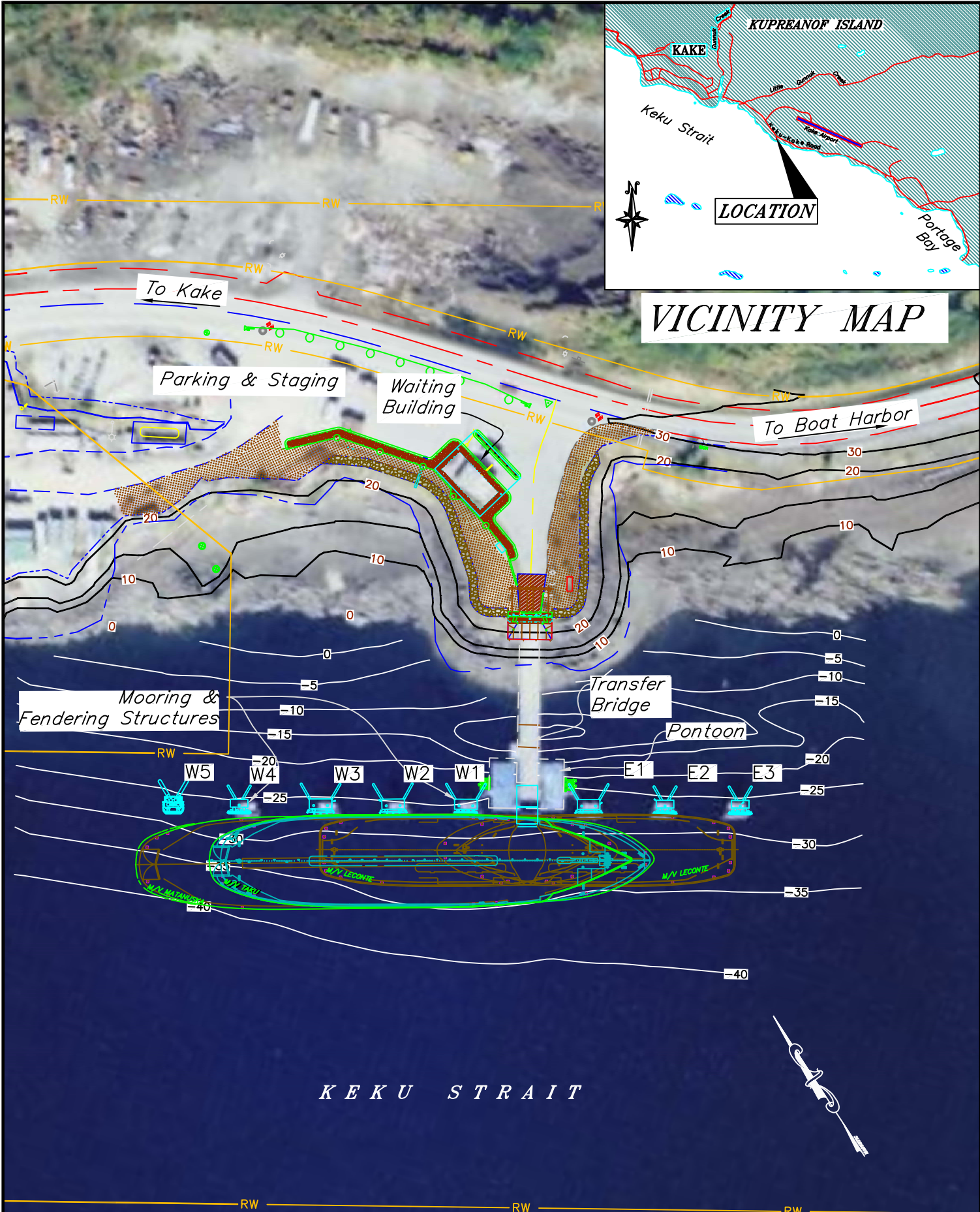


VICINITY MAP



KEKU STRAIT



GENERAL LAYOUT
KAKE

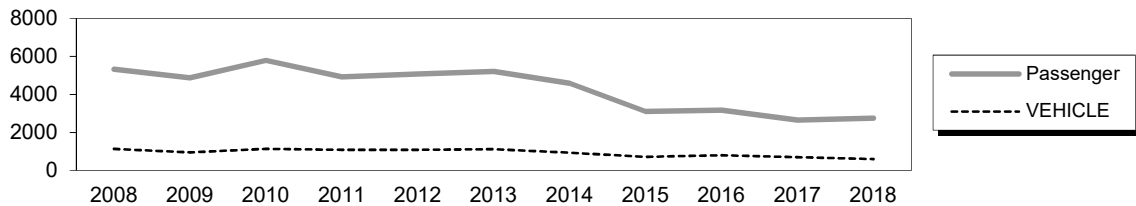
Kake Ferry Terminal

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 |