Alaska Marine	Highway	System
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Alaska Marine Highway System										
		l. a .	Inc		el Condition and Cost of Repairs	I	I	I	I	I= .
Request Repairs needed in last survey-Repairs Assessment Per the FY18-FY19 Fleet Condition Survey See Attached Appendixes	Aurora • Hull Structure and Appendages • Main Propulsion System Repower • Vehicle Loading Doors • Centralized Fire Detection/Alarm System • Navigation Equipment - Gyrocompass • Communications Systems • Bilge Alarms • Stbd Main Engine Exhaust Leak • Mooring Capstans • Firemain System and Piping • Bow Thruster Control • Vehicle Side Doors • Main Machinery Room HVAC • Fire Detection and Extinguishing, Engine Room Halon System • Vehicle Deck • Flushing System • Electrical Cabling • Emergency Electrical Power Distribution • Heating Plant - Steam and Condensate, accommodations spaces ventilation • Heating Plan - Solarium Electric Heaters • Vehicle Space Ventilation Louver • Fuel Oil System • Refrigeration Systems • Ship's Service Electrical Power Distribution	LeConte • Lifeboat Davit Controls • Ship Service Power Generation, digital voltage regulators • Bilge System • Heating Plant • Engineering Spaces, Refrigeration Systems • Tank Coatings • Galley • Centralized Fire Detection/Alarm System • Anchor Windlass • Superstructure, Engineering Spaces • Lockers and Stores • Vehicle Space Ventilation • Steering Stand • Steering Systems • Accommodation Space Ventilation • Communications Systems • Utility Boats and Davits • Pilothouse • Ship Service Power • Generation • Bridge/Sun Deck • Lube Oil Systems	Malaspina • Vehicle Loading Doors • Vehicle Deck Steel Replacement • Bow Thruster • Ship Service Electrical Generation and Distribution • Propellers and Shafting: Four Centerline Ballast Tank • Emergency Generator • Main Engines • Iriermain System and Piping • Manual Fire Alarm System • Tank and Void Coatings • Galley • Forward Observation • Lounge ACM Abatement • Centralized Fire • Detection/Alarm System • Fast Rescue/Utility Boats and Davits • Humidifiers: Ship Service Power Generation • Public Address System • Sewage Treatment System • Engine Room Ventilation • Tank Level Indicator System • CCTV Cameras • Heating Plant • Passenger Elevators • Talkback System • Potable Water Piping • Vehicle Space Ventilation • Serigeration • Superstructure • Hazardous Material Survey • EOT (Engine Order Telegraph) • Electrical Power Distribution	Matanuska Generator Replacement Centralized Fire Detection/Alarm System Accommodations Ventilation Overhaul Crew Quarters Air Conditioning Rudders Vehicle Space Monitoring Tank Coatings Stern and Side Loading Doors Automatic Sprinkling System CCTV System Upgrade MSD System Upgrade Digital GPS Bow Thruster Replacement Bilge and Ballast System Boiler Replacement Anchor Windlass Galley Deck Covering Potable Water System Refrigeration Systems Searchllights Replace PA/GA System	Columbia Cathodic Protection System Shaft Alley Ventilation Sewage Collection and MSD Treatment System Firemain System and Piping Engineering Spaces and Tank Coatings Fan Rooms Main Galley Food Preparation and Service Area Seawater Cooling Systems CPP system replacement Electrical Distribution Steering Control System Public Address System Public Address System Patherior Coatings Passenger Elevator Exterior Coatings Passenger Elevator Lift System Aft Dumbwaiter Bow Thruster Depth Sounder Mooring Capstans ACM Survey Centralized Fire Detection System Galley Equipment MMR and AMR Ventilation Seawater Strainers Fuel Oil System Power Survey • Potable Water Filter Fuel Oil System Steam Heaters Potable Water System: Accommodation Space Ventilation Vehicle Loading Doors Vehicle Space HVAC Bridge Deck A/C Unit Exterior safety wires and handrails - Aft Mooring Station Motor Controllers Fuel Tank - Separation of 7-centrelline fuel tank and skeg keel Reduction Gear Coolers Additional CCTV Cameras Compressed Air System Refrigeration Equipment	Kennicott Main Propulsion Elevator Systems Heating Plant Sewage Collection and Treatment Systems Ventilation Systems Alarm Monitoring Systems Alarm Monitoring Systems Hull Plating and Appendages Fire Suppression Systems and Piping Tanks and Voids Fire Doors and Fire Screen Doors Elevator Systems Heating Plant Vehicle Space Accommodations Ladders Seawater Piping Systems Fuel and Lube Oil Systems Superstructure (Cabin Deck and Above) Communication Systems Galley Means of Rescue (MOR) Platform and Davit Ship Service Electrical Power Distribution Steering Systems Seawater Piping Systems Steering Systems Steering Systems Steering Systems Steering Systems Elevator Systems Elevator Systems Fire Boundaries and Structural Insulation Mooring Capstans Lifeboats and Davits Ship Service Electrical Power Distribution Refrigeration Systems Ship Service Power Generation Fuel and Lube Oil Systems Fire Suppression Systems Ship Service Power Generation Fuel and Lube Oil Systems Fire Suppression Systems and Piping	Lituya Propellers and Shafting Bow Thruster Steering Gear Docking Intercom House, Deck & Freeboard Coating Systems Crew Areas Sewage Collection and Discharge Cables Heating Plant Machinery Alarm and Monitoring MOR and Crane Uptake Seawater Cooling Pumps	Hubbard NA due to New Constructed Vessels	Tazlina NA due to New Constructed Vessels	Structural Repairs • Structural Repairs • Vehicle Lift Structural Repairs • Fin Stabilizer • Watertight Doors • Replacement of Steel Piping • Repairs to the forward Sponson • Overheated Electrical Panels • Steering System • Bridge Wing Control Stations • Fan Room: Exterior Coating • Main Propulsion System • Talk Back System: Training Room • Steering Stand • Tank, Void and Bilge Coatings • Tank Wastage • Emergency Electrical Distribution • CCTV System • Solarium Deck HVAC • Aft Vehicle Space Doors • Emergency Batteries
Cost of Needed Repairs	\$24,820,000	\$9,686,60	\$68,033,800	\$19,436,800	\$14,816,500	\$61,209,600	\$1,644,62			\$14,689,400
·		33,080,00		\$15,430,600	J14,810,300	301,203,000	31,044,02			314,085,400
Provider Of Cost Estimate	Glosten	Glosten	Glosten	Glosten	Glosten	Glosten	Glosten			Glosten
Valid Certificate of Inspection (COI)	No	No	Yes	Yes	No	Yes	Yes	NA	Yes	Yes
Date of Certificate of Operation	Certification Date: 11/16/2018 Expiration Date: 11/16/2019	Certification Date: 12/26/18 Expiration Date: 12/26/2019	Certification Date: 02/21/19 Expiration Date: 02/21/2020	Certification Date: 11/17/19 Expiration Date: 11/17/2020	Certification Date: 12/12/18 Expiration Date: 12/12/2019	Certification Date: 04/04/19 Expiration Date: 04/04/20	Certification Date: 01/58/19 Expiration Date: 01/25/24	NA	Certification Date: 04/12/19 Expiration Date: 04/12/20	Certification Date: 05/03/19 Expiration Date: 05/03/20
Additional Costs if COI Expires	\$5.0 Million	\$5.5 Million	\$15.5 Million		\$1.75 Million					
Annual overhaul in FY20 & est. cost FY20 Annual Budget-FY20 Expended as of 01/01/2020	Original Estimated Budget: \$810,000 Actual Expenditures to Date: \$183,484	Original Estimated Budget: \$1,178,200 Actual Expenditures to Date: \$ 1,770,214	Original Estimated Budget: \$663,500 Actual Expenditures to Date: \$150,731	Original Estimated Budget: \$625,000 Actual Expenditures to Date: \$193,736	Original Estimated Budget: \$21,000 Actual Expenditures to Date: Risk Management Funds approximately \$500K Annual overhaul is estimated @ \$1.5 million	Original Estimated Budget: \$2,707,000 Actual Expenditures to Date: Overhaul Just Began	Original Estimated Budget: \$428,200 Actual Expenditures to Date: \$7,757	Original Estimated Budget: \$0 Actual Expenditures to Date: \$0	Original Estimated Budget: \$0 Actua Expenditures to Date: \$0	Original Estimated Budget: \$1,685,500 Actual Expenditures to Date: \$105,833
Annual Overhauls in FY21	*no overhaul currently planned	Estimated FY21 Budget: \$2,000,000	*no overhaul currently planned	Estimated FY21 Budget: \$2,750,000	Estimated FY21 Budget: 3,000,000	Estimated FY21 Budget: \$2,500,000	Estimated FY21 Budget: \$750,000	Estimated FY21 Budget: \$1,200,000	Estimated FY21 Budget: \$1,200,000	Estimated FY20 Budget: \$2,500,000
Weekly Operating Costs**	\$186,000	\$161,00	\$361,000	\$345,000	\$477,000	\$423,000	\$20,000	\$169,000	\$169,000	\$260,000
Dates of Operation in FY20***	July 1, 2019 - Oct. 31, 2019	July 1, 2019 - Sept. 9, 2019 May 20, 2020 - June 30, 2020	July 1, 2019 - Dec. 1, 2019	Dec. 2, 2019 - June 30, 2020	July 1, 2019 - Oct. 2, 2019 May 6, 2020 - June 30, 2020	July 1, 2019 - Oct. 7, 2019 April 16, 2020 - June 30, 2020	July 1, 2019 - Jan. 9, 2020 Jan. 26, 2020 - June 30, 2020	None currently planned	July 1, 2019 - Sept. 15, 2019 Nov. 21, 2019 - Jan. 19, 2020 Mar. 1, 2020 - June 30, 2020	July 1, 2019 - Jan. 14, 2020 May 1, 2020 - June 30, 2020
Cost of Recertification of Lapsed COI	5.0 Million	5.5 Million	15.5 Million		1.75 Million					
(a) Status of COI, (B) when COI expires (c) any maintenance known or suspected to be required to maintain, reinstate, or obtain a COI for that vessel	(a) Non Active (b) Expired 11/16/2019 (c) \$801,000	(a) Non Active (b) Expired on 12/26/2019 (c) \$765,200	(a) Active (b) Expires on 02/21/2020 (c) \$600,000	(a) Active (b) Expires on 11/27/2020 (c) \$500,000	(a) Non Active (b) Expired on 12/12/2019 (c) \$1,500,000	(a) Active (b) Expires on 04/04/20 (c) \$1,278,000	(a) Active (b) Expires on 01/25/24 (c) 5382,200	NA	(a) Active (b) Expires on 04/12/20 (c)\$500,000	(a) Active (b) Expires on 05/03/20 (c) \$836,500
(a) The amount of state general funds spent or obligated in a contract on a vessel using FY20 state general funds appropriated for use by the legislature last session and (b) the type of repair work the funds were spent on.	(a) Original Estimated Budget: \$810,000.00 Actual Expenditures to Date: \$183,483.56 (b) material/steel surveys.	(a)Original Estimated Budget: \$6,878,200.00 Actual Expenditures to Date: \$2,144,555.68 (b) Steel repairs	(a) Original Estimated Budget: \$663,500 Actual Expenditures to Date: \$150,730.89 (b)mooring fees, logistical support at shipyard	(a) Original Estimated Budget: \$1,425,000.00 Actual Expenditures to Date: \$793,735.80 (b) regulatory inspections/surveys	(a) Original Estimated Budget: \$3,000,000 Actual Expenditures to Date: \$148,000	(a) Original Estimated Budget: \$3,307,000.00 Actual Expenditures to Date: \$24,300 (b)annual overhaul work, regulatory driven	(a) Original Estimated Budget: \$828,200 Actual Expenditures to Date: \$7,756,54 (b) annual overahaul regulatory driven	(a) Original Estimated Budget: \$0 Actual Expenditures to Date: \$0	(a) Original Estimated Budget: 5246,915.29 Actual Expenditures to Date: 50	(a) Original Estimated Budget: \$2,285,500.00 Actual Expenditures to Date: \$105,833.09 (b) annual overhaul work, regulatory driven
(a) The amount of federal funds spent or obligated in a contract for that vessel in FY20 on each vessel and the type or federal program source for funds (Ferry Boat Formula Funds, FTA NHPP, STBG, etc.) and the type of repair work the federal funds were spent on;	(a) FHWA/FBD Fleetwide Passenger Amenities \$186,014.67	(a) FHWA/FBD Fleetwide Passenger Amenities \$61,196.40	(a) FHWA/FBDFleetwide Passenger Amenities \$18,166.35 Malaspina Steel Refurbishment-Ph2 \$100,000	(a) FHWA/FBD Fleetwide Passenger Amenities \$31,079.00 Matanuska Repower \$861,1243.92.	(a) FHWA/FBDCOL Controlable Pitch Propellar Replacement-Ph2 \$150,000	None at this time	None at this time	None at this time	None at this time	(a) FHWA/FBDFleetwide Passenger Amenities \$24,853.00. TUS Refurbishment Project- new project \$0 spent.

(a) The current estimated amount needed										
to repair or maintain the vessel in FY20										
and whether there is a shortfall, the type										
of repairs needed, and whether it is										
possible a significant of additional funds										
are needed to repair and operate the										
vessel with a COI, and if so what type of										
additional repairs are needed and the	(a) Cost-\$7,000,000 (Steel Replacement) *COI cost-	(a) Cost-\$5,500,000 (Steel Replacement) *COI cost	(a) Cost-\$15,550,000 (Steel Replacement) *COI cost-	(a)Cost-\$1,400,000 (annual regulatory) *COI			(a) Cost-\$475,000 (Steel Replacement-			(a) Cost-\$1,750,000 (fin stabilizer-machinery-
estimated costs.	\$801,000	\$765,000	\$836,000	cost-\$475,000	(a) Cost-\$2,500,000(machinery-hull) *COI cost-\$1,200,000	(a)Cost-\$2,700,000 (machinery-hull) *COI cost-\$1,200,000	regulatory inspections) *COI cost-\$382,000	None at this time	(a)Cost-\$500,000 *COI cost-\$246,000	vehicle Ifit work) *COI cost-\$836,000
(a) For any Vessel with an identified shortfall in funding for repairs or maintenance, state the amount of shortfall, the type of repairs needed, and whether it is possible a significant amount of additional funds are needed to repair and operate the vessel with a COI, and if										
so what type of additional repairs are		(a) Steel \$6,500,000, Boiler \$750,000	(a)Steel \$15,500,000	(a) Operational Next overhaul 2021	(a) Engine Overhaul, CPP system, Boiler \$2,500,000	(a)Engine Overhaul, Fin Stabilizer \$2,700,000	None at this time	None at this time		(a) \$1,750,000 Fin stabilizers, VETS Tranfer Bridge

^{**}The weekly operating costs listed are the average weekly costs and include direct vessel operating costs only. They do not include any vessel overhead or shoreside costs to support vessel operations.

***These are the planned operating dates as of 1/21/20
\$ in Whole Dollars