



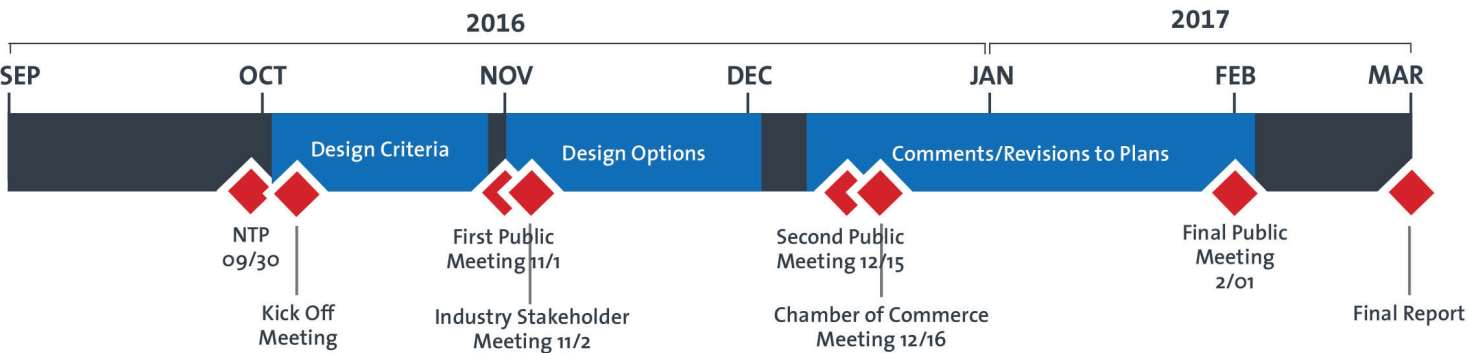
**Project Overview:**

Lutak Dock is a deep water port originally constructed in 1953. Modifications, repairs and partial replacements to the dock have been incrementally occurring since 2003 in order to maintain the dock’s working condition. Through this project, the Haines Borough is considering options for replacing or refurbishing the Lutak Dock with the purpose of:

- Securing the integrity of the existing facility;
- Maintaining existing working area and functionality;
- Maximizing life expectancy;and
- Providing a design that allows for expansion of the facility in the event of future demand.

<p><b>Alternative 1A &amp; 1B:</b>  <u>Encapsulation</u>  Encapsulating the dock structure with new sheet pile walls, keeping the existing dock size and fuctionality.</p>	<p><b>Alternative 2: Platform Dock</b>  Replacing the existing dock with a like size and capacity facility.</p>	<p><b>Alternative 3A &amp; 3B : Dolphins &amp; Transfer Bridge</b>  Reinforcing the existing dock using a combined sheet pile bulkhead and pipe pile supported platform dock.</p>
--	---	---

A summary table of the alternatives analysis is provided on the back of this sheet. 



Visit the project website: [www.LutakDock.com](http://www.LutakDock.com)

**For more information contact:**  
**Brad Ryan:** Haines Borough, Director of Public Facilities at 907-766-2256 or [bryan@haines.ak.us](mailto:bryan@haines.ak.us)  
**Van Le, AICP:** R&M Consultants, Inc. Public Involvement at 907-646-9659 or [vle@rmconsult.com](mailto:vle@rmconsult.com)

**TABLE 1: LUTAK DOCK REPLACEMENT, ALTERNATIVES ANALYSIS SUMMARY**

ALT. NO.	DESCRIPTION	PROS	CONS	LEVEL OF SERVICE	CAPITAL COST
1A	ENCAPSULATE USING MODIFIED DIAPHRAGM	<ul style="list-style-type: none"> <li>• EFFICIENT AND COST EFFECTIVE</li> <li>• MAINTAINS EXISTING FOOTPRINT</li> <li>• ACCOMMODATES CURRENT USERS INCLUDING PASS PASS CARGO OPERATIONS</li> <li>• RECLAIM ABOUT ½ ACRE UPLANDS AT CELLS 5, 6, AND 7</li> </ul>	<ul style="list-style-type: none"> <li>• PILE DRIVING RISK DURING CONSTRUCTION</li> <li>• ENCAPSULATES EXISTING SHEETS AND POOR QUALITY FILL</li> </ul>	<ul style="list-style-type: none"> <li>• HIGH</li> </ul>	<ul style="list-style-type: none"> <li>• \$37,420,000</li> </ul>
1B	ENCAPSULATE USING MODIFIED DIAPHRAGM	<ul style="list-style-type: none"> <li>• EFFICIENT AND COST EFFECTIVE</li> <li>• MAINTAINS EXISTING FOOTPRINT</li> <li>• ACCOMMODATES CURRENT USERS INCLUDING PASS PASS CARGO OPERATIONS</li> </ul>	<ul style="list-style-type: none"> <li>• PILE DRIVING RISK DURING CONSTRUCTION</li> <li>• ENCAPSULATES EXISTING SHEETS AND POOR QUALITY FILL</li> <li>• DOES NOT RECLAIM UPLANDS AT CELLS 5, 6, AND 7</li> </ul>	<ul style="list-style-type: none"> <li>• HIGH</li> </ul>	<ul style="list-style-type: none"> <li>• \$31,989,000</li> </ul>
2	PLATFORM DOCK (STEEL PILE-SUPPORTED CONCRETE DECK)	<ul style="list-style-type: none"> <li>• ALL NEW FACILITIES</li> <li>• HIGHER LEVEL OF SEISMIC PERFORMANCE</li> <li>• MAINTAINS EXISTING FOOTPRINT AND RECLAIMS ½ ACRE UPLANDS AT CELLS 5, 6, AND 7</li> <li>• ACCOMMODATES CURRENT USERS INCLUDING PASS PASS CARGO OPERATIONS</li> </ul>	<ul style="list-style-type: none"> <li>• HIGHEST COST</li> </ul>	<ul style="list-style-type: none"> <li>• HIGH</li> </ul>	<ul style="list-style-type: none"> <li>• \$61,840,000</li> </ul>
3A	DOLPHINS AND TRANSFER BRIDGE	<ul style="list-style-type: none"> <li>• ALL NEW FACILITIES</li> </ul>	<ul style="list-style-type: none"> <li>• LOSE APPROXIMATELY 1.7 ACRES OF UPLANDS</li> <li>• LOSE ABILITY TO USE PASS PASS FOR CARGO OPERATIONS</li> <li>• LOSE ABILITY TO SIDE LOAD OVER DOCK FACE</li> </ul>	<ul style="list-style-type: none"> <li>• MEDIUM</li> </ul>	<ul style="list-style-type: none"> <li>• \$25,383,000</li> </ul>
3B	DOLPHINS AND TRANSFER BRIDGE	<ul style="list-style-type: none"> <li>• LEAST COST</li> <li>• ALL NEW FACILITIES</li> </ul>	<ul style="list-style-type: none"> <li>• LOSE APPROXIMATELY 1.7 ACRES OF UPLANDS</li> <li>• LOSE ABILITY TO USE PASS PASS FOR CARGO OPERATIONS</li> <li>• LOSE ABILITY TO SIDE LOAD OVER DOCK FACE</li> <li>• SERVICEABILITY LIMITED TO EXISTING FUEL AND CARGO BARGES</li> </ul>	<ul style="list-style-type: none"> <li>• MEDIUM</li> </ul>	<ul style="list-style-type: none"> <li>• \$21,166,000</li> </ul>